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Natural Resources Conservation Service

Montana Basin Outlook Report February 1, 1997



Basin Outlook Reports

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and Federal - State - Private Cooperative Snow Surveys

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How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Natural Resources Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

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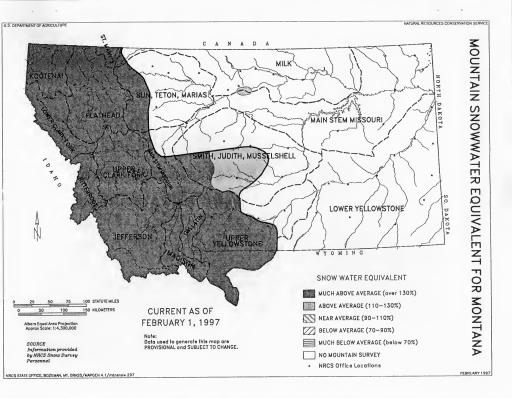
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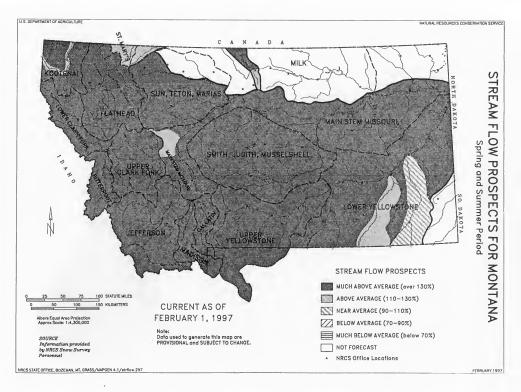
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BEAGLE SPOS PILLOW 8850 2/01/97 9.8 6.8 5.3 BEAVER CREEK PILLOW 7850 2/01/97 23.7 13.6 11.6 BISSON CREEK PILLOW 7950 2/01/97 14.5 6.9 6.9 BLACK BEAR PILLOW 7950 2/01/97 48.9 32.1 24.5 BLACK PINE PILLOW 7950 2/01/97 12.8 11.0 8.0 BLACK PINE PILLOW 7950 1/28/97 54 17.6 8.9 BLACK PINE PILLOW 7950 2/01/97 15.3 11.7 8.2 BOULDER MIN PILLOW 7950 2/01/97 20.2 15.5 12.8 BOX CANYON PILLOW 7950 2/01/97 12.4 9.2 7.0 BOX CANYON PILLOW 7950 2/01/97 12.4 9.2 7.0 BOX CANYON PILLOW 7950 2/01/97 12.4 9.2 7.0 BOXELDER CREEK 5100 1/29/97 27 6.1 1.5 5.8 BRACKETT CR PILLOW 7320 2/01/97 21.9 17.2 12.9 BRIDGER BOWL 7250 1/30/97 82 28.7 18.4 17.0 CALVERT CR PILLOW 6430 2/01/97 13.4 8.7 6.1 CARROT BASIN PILLOW 6430 2/01/97 13.4 8.7 6.1 CHICKEN CREEK 4060 1/28/97 15 3.4 8. 2.7 CHICKEN CREEK 4060 1/31/97 65 21.0 13.4 10.9 CLOVER MOW PILLOW 8800 2/01/97 15.9 13.5 11.5 COLE CREEK PILLOW 7850 2/01/97 15.9 13.5 11.5 COLE CREEK PILLOW 7850 2/01/97 15.9 13.5 11.5 COMBINATION PILLOW 5600 2/01/97 6.0 3.3 3.8 COPPER BOTTOM PILLOW 5600 2/01/97 13.2 2.8 3 22.6 COPPER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COYDER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COYDER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COYDER MOUNTAIN 7700 1/29/97 36 8.7 7.2 7.0 DALY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DALY CREEK PILLOW 5780 2/01/97 13.4 9.0 6.8 DALY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DALY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DALY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DALY CREEK PILLOW 5780 2/01/97 13.6 6.9 9.2 DISCOVERY BASIN 7050 1/29/97 36 8.7 7.2 7.0 DEADMAN CR PILLOW 6450 2/01/97 11.3 7.2 6.9 DISCOVERY BASIN 7050 1/29/97 36 8.7 7.2 7.0 DEADMAN CR PILLOW 5780 2/01/97 11.3 7.2 6.9 DISCOVERY BASIN 7050 1/29/97 36 8.7 7.2 7.0 DEADMAN CR PILLOW 5780 2/01/97 11.3 7.2 6.9 DISCOVERY BASIN 7050 1/29/97 36 8.7 7.2 7.0 DEADMAN CR PILLOW 5780 2/01/97 11.3 7.2 6.9 DISCOVERY BASIN 7050 1/29/97 36 8.7 7.2 7.0 DEADMAN CR PIL	BASSOO PEAK	5150	2/03/97	47	14.0	6.4		
BEAVER CREEK PILLOW 7850 2/01/97 23.7 13.6 11.6 BISSON CREEK PILLOW 7950 2/01/97 14.5 6.9 BLACK BEAR PILLOW 7950 2/01/97 12.8 11.0 8.0 BLACK PINE PILLOW 7100 2/01/97 12.8 11.0 8.0 BLACK PINE PILLOW 7550 2/01/97 15.3 11.7 8.2 BLOODY DICK PILLOW 7550 2/01/97 15.3 11.7 8.2 BOULDER MIN PILLOW 7550 2/01/97 20.2 15.5 12.8 BOX CANYON PILLOW 6700 2/01/97 12.4 9.2 7.0 BOXELDER GREEK 5100 1/29/97 27 66.1 1.5 5.8 BRACKETT CR PILLOW 7320 2/01/97 21.9 17.2 12.9 BRIDGER BOWL 7250 1/30/97 82 28.7 18.4 17.0 CALVERT CR PILLOW 6403 2/01/97 13.4 8.7 6.1 CARROT BASIN PILLOW 9000 2/01/97 32.8 23.1 17.3 CHESSMAN RESERVOIR 6200 1/28/97 15 3.4 8.7 6.1 CARROT BASIN PILLOW 8800 2/01/97 15.9 13.5 11.5 COLE GREEK PILLOW 7850 2/01/97 15.9 13.5 11.5 COLE GREEK PILLOW 7850 2/01/97 15.9 13.5 11.5 COLE GREEK PILLOW 7850 2/01/97 11.1 13.4 10.2 COMBINATION PILLOW 5600 2/01/97 15.9 13.5 11.5 COPPER BOTTOM PILLOW 5200 2/01/97 14.3 10.1 7.4 COPPER GAMP FILLOW 6050 2/01/97 14.3 10.1 7.4 COPPER GAMP FILLOW 6050 2/01/97 14.3 10.1 7.4 COPPER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COYOTE HILL 4200 1/31/97 45 13.5 7.9 7.0 COYOTE HILL 4200 1/31/97 45 13.5 7.9 7.0 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DEADMAN CR FILLOW 6450 2/01/97 13.3 6.9 22.0 DEADMAN CR FILLOW 7800 2/01/97 13.3 7.2 6.9 DIX CUVERY BASIN 7050 1/28/97 36 8.7 7.2 7.0 DEADMAN CR FILLOW 7800 2/01/97 13.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DIVUDE PILLOW 5750 2/01/97 13.3 3.3 3.4 EMERY CREEK FILLOW 4350 2/01/97 17.6 7.7 10.9 EMERY CREEK FILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK FILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK FILLOW 4350 2/01/97 17.6 7.7 10.9	BEAGLE SPGS PILLOW	8850	2/01/97		9.8	6.8	5.3	
BLACK PINE PILLOW 7100 2/01/97 12.8 11.0 8.0 BLACKTAIL 5650 1/28/97 54 17.6 8.9 BLOODY DICK PILLOW 7550 2/01/97 15.3 11.7 8.2 BOULDER MTN PILLOW 7950 2/01/97 20.2 15.5 12.8 BOX CANYON PILLOW 7950 2/01/97 12.4 9.2 7.0 BOX CANYON PILLOW 7950 1/29/97 27 6.1 1.5 5.8 BRACKETT CR PILLOW 7320 2/01/97 21.9 17.2 12.9 BRIDGER BOWL 7250 1/30/97 82 28.7 18.4 17.0 CARROT BASIN PILLOW 6430 2/01/97 13.4 8.7 6.1 CARROT BASIN PILLOW 9000 2/01/97 32.8 23.1 17.3 CHESSMAN RESERVOIR 6200 1/28/97 15 3.4 8 2.7 (HICKEN CREEK 4060 1/31/97 65 21.0 13.4 10.9 CLOVER MOW PILLOW 8800 2/01/97 15.9 13.5 11.5 COLE CREEK PILLOW 7850 2/01/97 14.1 13.4 10.2 COMBINATION PILLOW 5000 2/01/97 15.9 13.5 11.5 COPPER BOTTOM PILLOW 5000 2/01/97 14.3 10.1 7.4 COPPER CAMP PILLOW 6050 2/01/97 14.3 10.1 7.4 COPPER CAMP PILLOW 6050 2/01/97 32.2 28.3 22.6 COPPER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COYOTE HILL 4200 1/31/97 45 13.5 7.9 7.0 DALY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DALY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DALY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DALY CREEK PILLOW 6050 2/01/97 13.6 8.7 7.2 7.0 DEADMAN CR PILLOW 6450 2/01/97 13.6 6.9 22.0 DEADMAN CR PILLOW 65700 2/01/97 11.3 7.2 6.9 DIVIDE PILLOW 65700 2/01/97 11.7 6.7 7.0 DEADMAN CR PILLOW 65700 2/01/97 11.3 7.2 6.9 DIVIDE PILLOW 65700 2/01/97 11.7 6.7 7.0 DEADMAN CR PILLOW 65700 2/01/97 11.7 6.7 7.0 DEADMAN CR PILLOW 65700 2/01/97 11.7 6.7 7.0 D	BEAVER CREEK PILLOW	7850	2/01/97			13.6	11.6	
BLACK PINE PILLOW 7100 2/01/97 12.8 11.0 8.0 BLACKTAIL 5650 1/28/97 54 17.6 8.9 BLOODY DICK PILLOW 7550 2/01/97 15.3 11.7 8.2 BOULDER MTN PILLOW 7950 2/01/97 20.2 15.5 12.8 BOX CANYON PILLOW 7950 2/01/97 12.4 9.2 7.0 BOX CANYON PILLOW 7950 1/29/97 27 6.1 1.5 5.8 BRACKETT CR PILLOW 7320 2/01/97 21.9 17.2 12.9 BRIDGER BOWL 7250 1/30/97 82 28.7 18.4 17.0 CARROT BASIN PILLOW 6430 2/01/97 13.4 8.7 6.1 CARROT BASIN PILLOW 9000 2/01/97 32.8 23.1 17.3 CHESSMAN RESERVOIR 6200 1/28/97 15 3.4 8 2.7 (HICKEN CREEK 4060 1/31/97 65 21.0 13.4 10.9 CLOVER MOW PILLOW 8800 2/01/97 15.9 13.5 11.5 COLE CREEK PILLOW 7850 2/01/97 14.1 13.4 10.2 COMBINATION PILLOW 5000 2/01/97 15.9 13.5 11.5 COPPER BOTTOM PILLOW 5000 2/01/97 14.3 10.1 7.4 COPPER CAMP PILLOW 6050 2/01/97 14.3 10.1 7.4 COPPER CAMP PILLOW 6050 2/01/97 32.2 28.3 22.6 COPPER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COYOTE HILL 4200 1/31/97 45 13.5 7.9 7.0 DALY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DALY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DALY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DALY CREEK PILLOW 6050 2/01/97 13.6 8.7 7.2 7.0 DEADMAN CR PILLOW 6450 2/01/97 13.6 6.9 22.0 DEADMAN CR PILLOW 65700 2/01/97 11.3 7.2 6.9 DIVIDE PILLOW 65700 2/01/97 11.7 6.7 7.0 DEADMAN CR PILLOW 65700 2/01/97 11.3 7.2 6.9 DIVIDE PILLOW 65700 2/01/97 11.7 6.7 7.0 DEADMAN CR PILLOW 65700 2/01/97 11.7 6.7 7.0 DEADMAN CR PILLOW 65700 2/01/97 11.7 6.7 7.0 D	BISSON CREEK PILLOW	4920	2/01/97		14.5	6.9	6.9	
BOULDER MIN PILLOW 7950 2/01/97 20.2 15.5 12.8 BOX CANYON PILLOW 7950 2/01/97 12.4 9.2 7.0 BOXELDER CREEK 5100 1/29/97 27 6.1 1.5 5.8 BRACKETT CR PILLOW 7320 2/01/97 21.9 17.2 12.9 BRIDGER BOWL 7250 1/30/97 82 28.7 18.4 17.0 CALVERT CR PILLOW 6430 2/01/97 13.4 8.7 6.1 17.3 CALVERT CR PILLOW 6430 2/01/97 32.8 23.1 17.3 CHESSMAN RESERVOIR 6200 1/28/97 15 3.4 8 2.7 CHICKEN CREEK 4060 1/31/97 65 21.0 13.4 10.9 CLOVER MDW PILLOW 8800 2/01/97 15.9 13.5 11.5 COLE CREEK PILLOW 7850 2/01/97 11.1 13.4 10.9 CLOVER MDW PILLOW 5000 2/01/97 11.1 13.4 10.2 COMBINATION PILLOW 5000 2/01/97 14.3 10.1 7.4 COPPER CAMP PILLOW 5000 2/01/97 32.2 28.3 22.6 COPPER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COVOTE HILL 4200 1/31/97 42 14.0 8.0 7.5 CRYSTAL LAKE PILLOW 6050 2/01/97 9.8 4.9 8.4 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DALY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DALY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DALY CREEK PILLOW 5780 2/01/97 13.6 26.9 22.0 DEADMAN CR PILLOW 6450 2/01/97 11.3 7.2 6.9 DISCOVERY BASIN 7050 1/28/97 45 12.4 9.0 6.8 DIVIDE PILLOW 6450 2/01/97 11.3 7.2 6.9 DIVIDE PILLOW 6450 2/01/97 11.3 7.2 6.9 DIVIDE PILLOW 6450 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 EMERY CREEK PILLOW 4350 2/01/97 17.6 43.8 33.4 42.2	BLACK BEAR PILLOW	7950	2/01/97		48.9	32.1		
BOULDER MIN PILLOW 7950 2/01/97 20.2 15.5 12.8 BOX CANYON PILLOW 7950 2/01/97 12.4 9.2 7.0 BOXELDER CREEK 5100 1/29/97 27 6.1 1.5 5.8 BRACKETT CR PILLOW 7320 2/01/97 21.9 17.2 12.9 BRIDGER BOWL 7250 1/30/97 82 28.7 18.4 17.0 CALVERT CR PILLOW 6430 2/01/97 13.4 8.7 6.1 17.3 CALVERT CR PILLOW 6430 2/01/97 32.8 23.1 17.3 CHESSMAN RESERVOIR 6200 1/28/97 15 3.4 8 2.7 CHICKEN CREEK 4060 1/31/97 65 21.0 13.4 10.9 CLOVER MDW PILLOW 8800 2/01/97 15.9 13.5 11.5 COLE CREEK PILLOW 7850 2/01/97 11.1 13.4 10.9 CLOVER MDW PILLOW 5000 2/01/97 11.1 13.4 10.2 COMBINATION PILLOW 5000 2/01/97 14.3 10.1 7.4 COPPER CAMP PILLOW 5000 2/01/97 32.2 28.3 22.6 COPPER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COVOTE HILL 4200 1/31/97 42 14.0 8.0 7.5 CRYSTAL LAKE PILLOW 6050 2/01/97 9.8 4.9 8.4 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DALY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DALY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DALY CREEK PILLOW 5780 2/01/97 13.6 26.9 22.0 DEADMAN CR PILLOW 6450 2/01/97 11.3 7.2 6.9 DISCOVERY BASIN 7050 1/28/97 45 12.4 9.0 6.8 DIVIDE PILLOW 6450 2/01/97 11.3 7.2 6.9 DIVIDE PILLOW 6450 2/01/97 11.3 7.2 6.9 DIVIDE PILLOW 6450 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 EMERY CREEK PILLOW 4350 2/01/97 17.6 43.8 33.4 42.2	BLACK PINE PILLOW	7100	2/01/97		12.8	11.0	8.0	
BOULDER MIN PILLOW 7950 2/01/97 20.2 15.5 12.8 BOX CANYON PILLOW 7950 2/01/97 12.4 9.2 7.0 BOXELDER CREEK 5100 1/29/97 27 6.1 1.5 5.8 BRACKETT CR PILLOW 7320 2/01/97 21.9 17.2 12.9 BRIDGER BOWL 7250 1/30/97 82 28.7 18.4 17.0 CALVERT CR PILLOW 6430 2/01/97 13.4 8.7 6.1 17.0 CARROT BASIN PILLOW 900 2/01/97 32.8 23.1 17.3 CHESSMAN RESERVOIR 6200 1/28/97 15 3.4 8 2.7 CHICKEN CREEK 4060 1/31/97 65 21.0 13.4 10.9 CLOVER MDW PILLOW 8800 2/01/97 15.9 13.5 11.5 COLE CREEK PILLOW 7850 2/01/97 11.1 13.4 10.2 COMBINATION PILLOW 5000 2/01/97 16.0 3.3 3.8 COPPER BOTTOM PILLOW 5000 2/01/97 14.3 10.1 7.4 COPPER CAMP PILLOW 5000 2/01/97 32.2 28.3 22.6 COPPER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COVOTE HILL 4200 1/31/97 42 14.0 8.0 7.5 CRYSTAL LAKE PILLOW 6050 2/01/97 9.8 4.9 8.4 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DEADMAN CR PILLOW 6450 2/01/97 14.7 8.1 7.8 1.7 8.0 DIVIDE PILLOW 6450 2/01/97 11.3 7.2 6.9 DIVIDE PILLOW 6450 2/01/97 11.3 7.2 6.9 DIVIDE PILLOW 6450 2/01/97 11.3 7.2 6.9 DIVIDE ROREKY PILLOW 4350 2/01/97 11.3 7.2 6.9 DIVIDE ROREKY PILLOW 4350 2/01/97 11.6 7.5 8.2 DIVIDER CREEK PILLOW 4350 2/01/97 11.6 7.7 10.9 EMENT CREEK PILLOW 4350 2/01/97 11.7 43.8 33.4 42.2	BLACKTAIL	5650	1/28/97	54	17.6		8.9	
BOULDER MTN PILLOW 7950 2/01/97 20.2 15.5 12.8 BOX CANYON PILLOW 7950 2/01/97 12.4 9.2 7.0 BOXELDER CREEK 5100 1/29/97 27 6.1 1.5 5.8 BRACKETT CR PILLOW 7320 2/01/97 21.9 17.2 12.9 BRIDGER BOWL 7250 1/30/97 82 28.7 18.4 17.0 CALVERT CR PILLOW 6430 2/01/97 13.4 8.7 6.1 CARROT BASIN PILLOW 6430 2/01/97 32.8 23.1 17.3 CHESSMAN RESERVOIR 6200 1/28/97 15 3.4 8 2.7 CHICKEN CREEK 4060 1/31/97 65 21.0 13.4 10.9 CLOVER MOW PILLOW 7850 2/01/97 15.9 13.5 11.5 COLE CREEK PILLOW 7850 2/01/97 15.9 13.5 11.5 COLE CREEK PILLOW 7850 2/01/97 15.9 13.5 11.5 COMBINATION PILLOW 5600 2/01/97 6.0 3.3 3.8 COPPER BOTTOM PILLOW 5600 2/01/97 14.3 10.1 7.4 COPPER CAMP PILLOW 6950 2/01/97 32.2 28.3 22.6 COPPER CAMP PILLOW 5200 2/01/97 32.2 28.3 22.6 COPPER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COYOTE HILL 4200 1/31/97 42 14.0 8.0 7.5 CRYSTAL LAKE PILLOW 6050 2/01/97 9.8 4.9 8.4 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DALY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DARYHORSE LK. PILLOW 5780 2/01/97 13.6 26.9 22.0 DEADMAN CR PILLOW 6450 2/01/97 13.6 26.9 22.0 DEADMAN CR PILLOW 6450 2/01/97 13.3 6.6 9.9 22.0 DEADMAN CR PILLOW 6450 2/01/97 13.3 7.2 6.9 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIVDEY GREEK PILLOW 4350 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 9.7 EMEREN CREEK PILLOW 4350 2/01/97 9.7 EMERY CREEK PILLOW 4350 2/01/97 9.7 EMERY CREEK PILLOW 4350 2/01/97 11.6 7.7 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 EMERY CREEK PILLOW 4350 2/01/97 43.8 33.4 42.2	BLOODY DICK PILLOW	7550	2/01/97		15.3	11.7	8.2	
BRACKETT CR PILLOW 7320 2/01/97 21.9 17.2 12.9 BRIDGER BOWL 7250 1/30/97 82 28.7 18.4 17.0 GALVERT CR PILLOW 9000 2/01/97 13.4 8.7 6.1 GARROT BASIN PILLOW 9000 2/01/97 32.8 23.1 17.3 CHESSMAN RESERVOTR 6200 1/28/97 15 3.4 8 2.7 CHICKEN CREEK 4060 1/31/97 65 21.0 13.4 10.9 CLOVER MOW PILLOW 8800 2/01/97 15.9 13.5 11.5 COLE CREEK PILLOW 7850 2/01/97 11.1 13.4 10.2 COMBINATION PILLOW 5600 2/01/97 14.3 10.1 7.4 COPPER BOTTOM PILLOW 6950 2/01/97 14.3 10.1 7.4 COPPER CAMP PILLOW 6950 2/01/97 32.2 28.3 22.6 COPPER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COYOTE HILL 4200 1/31/97 42 14.0 8.0 7.5 CRYSTAL LAKE PILLOW 6050 2/01/97 9.8 4.9 8.4 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DALY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DARKHORSE LK. PILLOW 6450 2/01/97 14.7 8.1 7.8 DARKHORSE LK. PILLOW 6400 2/01/97 14.7 8.1 7.8 DISCOVERY BASIN 7050 1/28/97 36 8.7 7.2 7.0 DEADMAN CR PILLOW 6450 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DIVIDE PILLOW 7500 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DIVUTER CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 4350 2/01/97 43.8 33.4 424.2	BOULDER MTN PILLOW	7950	2/01/97		20.2	15.5	12.8	
BRACKETT CR PILLOW 7320 2/01/97 21.9 17.2 12.9 BRIDGER BOWL 7250 1/30/97 82 28.7 18.4 17.0 GALVERT CR PILLOW 9000 2/01/97 13.4 8.7 6.1 GARROT BASIN PILLOW 9000 2/01/97 32.8 23.1 17.3 CHESSMAN RESERVOTR 6200 1/28/97 15 3.4 8 2.7 CHICKEN CREEK 4060 1/31/97 65 21.0 13.4 10.9 CLOVER MOW PILLOW 8800 2/01/97 15.9 13.5 11.5 COLE CREEK PILLOW 7850 2/01/97 11.1 13.4 10.2 COMBINATION PILLOW 5600 2/01/97 14.3 10.1 7.4 COPPER BOTTOM PILLOW 6950 2/01/97 14.3 10.1 7.4 COPPER CAMP PILLOW 6950 2/01/97 32.2 28.3 22.6 COPPER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COYOTE HILL 4200 1/31/97 42 14.0 8.0 7.5 CRYSTAL LAKE PILLOW 6050 2/01/97 9.8 4.9 8.4 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DALY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DARKHORSE LK. PILLOW 6450 2/01/97 14.7 8.1 7.8 DARKHORSE LK. PILLOW 6400 2/01/97 14.7 8.1 7.8 DISCOVERY BASIN 7050 1/28/97 36 8.7 7.2 7.0 DEADMAN CR PILLOW 6450 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DIVIDE PILLOW 7500 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DIVUTER CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 4350 2/01/97 43.8 33.4 424.2	BOX CANYON PILLOW	6700	2/01/97		12.4	9.2	7.0	
BRACKETT CR PILLOW 7320 2/01/97 21.9 17.2 12.9 BRIDGER BOWL 7250 1/30/97 82 28.7 18.4 17.0 GALVERT CR PILLOW 9000 2/01/97 13.4 8.7 6.1 GARROT BASIN PILLOW 9000 2/01/97 32.8 23.1 17.3 CHESSMAN RESERVOTR 6200 1/28/97 15 3.4 8 2.7 CHICKEN CREEK 4060 1/31/97 65 21.0 13.4 10.9 CLOVER MOW PILLOW 8800 2/01/97 15.9 13.5 11.5 COLE CREEK PILLOW 7850 2/01/97 11.1 13.4 10.2 COMBINATION PILLOW 5600 2/01/97 14.3 10.1 7.4 COPPER BOTTOM PILLOW 6950 2/01/97 14.3 10.1 7.4 COPPER CAMP PILLOW 6950 2/01/97 32.2 28.3 22.6 COPPER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COYOTE HILL 4200 1/31/97 42 14.0 8.0 7.5 CRYSTAL LAKE PILLOW 6050 2/01/97 9.8 4.9 8.4 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DALY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DARKHORSE LK. PILLOW 6450 2/01/97 14.7 8.1 7.8 DARKHORSE LK. PILLOW 6400 2/01/97 14.7 8.1 7.8 DISCOVERY BASIN 7050 1/28/97 36 8.7 7.2 7.0 DEADMAN CR PILLOW 6450 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DIVIDE PILLOW 7500 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DIVUTER CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 4350 2/01/97 43.8 33.4 424.2	BOXELDER CREEK	5100	1/29/97	2.7	6.1	1.5	5.8	
BRIDGER BOWL CALVERT CR PILLOW 6430 2/01/97 13.4 8.7 6.1 CARROT BASIN PILLOW 9000 2/01/97 32.8 23.1 17.3 CHESSMAN RESERVOIR 6200 1/28/97 15 3.4 8.8 2.7 CHICKEN GREEK 4060 1/31/97 65 21.0 13.4 10.9 CLOVER MDW PILLOW 8800 2/01/97 15.9 13.5 11.5 COLE CREEK PILLOW 7850 2/01/97 15.9 13.5 11.5 COLE CREEK PILLOW 7850 2/01/97 15.9 13.5 11.5 COPPER BOTTOM PILLOW 5600 2/01/97 6.0 3.3 3.8 COPPER BOTTOM PILLOW 6950 2/01/97 6.0 3.3 3.8 COPPER BOTTOM PILLOW 6950 2/01/97 14.3 10.1 7.4 COPPER CAMP PILLOW 6950 2/01/97 32.2 28.3 22.6 COPPER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COYOTE HILL 4200 1/31/97 42 14.0 8.0 7.5 CRYSTAL LAKE PILLOW 6050 2/01/97 9.8 4.9 8.4 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DARKHORSE LK. PILLOW 5780 2/01/97 14.7 8.1 7.8 DARKHORSE LK. PILLOW 6450 2/01/97 13.6 26.9 22.0 DEADMAN CR PILLOW 6450 2/01/97 10.9 6.4 6.7 DISCOVERY BASIN 7050 1/28/97 45 12.4 9.0 6.8 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DUPUYER CREEK PILLOW 4350 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 9.4 3.8 3.4 42.2	BRACKETT CR PILLOW	7320	2/01/97		21.9	17.2	12.9	
CALVERT CR PILLOW 6430 2/01/97 13.4 8.7 6.1 CARROT BASIN PILLOW 9000 2/01/97 32.8 23.1 17.3 CHESSMAN RESERVOIR 6200 1/28/97 15 3.4 8.2.7 CHICKEN CREEK 4060 1/31/97 65 21.0 13.4 10.9 CLOVER MOW PILLOW 8800 2/01/97 15.9 13.5 11.5 COLE CREEK PILLOW 7850 2/01/97 11.1 13.4 10.2 COMBINATION PILLOW 5600 2/01/97 14.1 13.4 10.2 COMBINATION PILLOW 5600 2/01/97 14.3 10.1 7.4 COPPER CAMP PILLOW 6950 2/01/97 14.3 10.1 7.4 COPPER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COYOTE HILL 4200 1/31/97 42 14.0 8.0 7.5 COYOTE HILL 4200 1/31/97 42 14.0 8.0 7.5 COYOTE HILL 4200 1/31/97 42 14.0 8.0 7.5 COYOTE HILL 4200 1/29/97 36 8.7 7.2 7.0 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DAISY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DARKHORSE LK. PILLOW 6450 2/01/97 14.7 8.1 7.8 DARKHORSE LK. PILLOW 6450 2/01/97 10.9 6.4 6.7 DISCOVERY BASIN 7050 1/28/97 45 12.4 9.0 6.8 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DIVIDE PILLOW 7550 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 4350 2/01/97 43.8 33.4 42.2	BRIDGER BOWL	7250	1/30/97	82	28.7	18.4		
CARROT BASIN PILLOW 9000 2/01/97 32.8 23.1 17.3 CHESSMAN RESERVOIR 6200 1/28/97 15 3.4 8 2.7 CHICKEN CREEK 4060 1/31/97 65 21.0 13.4 10.9 CLOVER MDW PILLOW 8800 2/01/97 15.9 13.5 11.5 COLE GREEK PILLOW 7850 2/01/97 15.9 13.5 11.5 COLE GREEK PILLOW 7850 2/01/97 6.0 3.3 3.8 COPPER BOTTOM PILLOW 5600 2/01/97 6.0 3.3 3.8 COPPER BOTTOM PILLOW 6950 2/01/97 14.3 10.1 7.4 COPPER CAMP PILLOW 6950 2/01/97 14.3 10.1 7.4 COPPER CAMP PILLOW 6950 2/01/97 14.3 10.1 7.4 COPPER CAMP PILLOW 6950 2/01/97 14.3 15. 7.9 7.0 COYOTE HILL 4200 1/31/97 42 14.0 8.0 7.5 CRYSTAL LAKE PILLOW 6050 2/01/97 9.8 4.9 8.4 9 8.4 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DEADMAN CR PILLOW 5780 2/01/97 14.7 8.1 7.8 DARKHORSE LK. PILLOW 6450 2/01/97 13.6 26.9 22.0 DEADMAN CR PILLOW 6450 2/01/97 10.9 6.4 6.7 DISCOWERY BASIN 7050 1/28/97 45 12.4 9.0 6.8 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DIVIDE PILLOW 4350 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 4350 2/01/97 43.8 33.4 24.2	CALVERT CR PILLOW	6430	2/01/97		13.4	8.7	6.1	
CHICKEN CREEK 4060 1/31/97 65 21.0 13.4 10.9 CLOVER MOW PILLOW 8800 2/01/97 15.9 13.5 11.5 COLE CREEK PILLOW 7850 2/01/97 11.1 13.4 10.2 COMBINATION PILLOW 5600 2/01/97 6.0 3.3 3.8 COPPER BOTTOM PILLOW 6950 2/01/97 14.3 10.1 7.4 COPPER CAMP PILLOW 6950 2/01/97 32.2 28.3 22.6 COPPER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COYOTE HILL 4200 1/31/97 42 14.0 8.0 7.5 CRYSTAL LAKE PILLOW 6050 2/01/97 9.8 4.9 8.4 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DAISY DEBAMAN CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DARKHORSE LK. PILLOW 6450 2/01/97 10.9 6.4 6.7 DISCOVERY BASIN 7050 1/28/97 45 12.4 9.0 6.8 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DUPUYER CREEK PILLOW 4350 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 EMERY CREEK PILLOW 4350 2/01/97 43.8 33.4 24.2	CARROT BASIN PILLOW	9000	2/01/97			23.1	17.3	
CHICKEN CREEK 4060 1/31/97 65 21.0 13.4 10.9 CLOVER MOW PILLOW 8800 2/01/97 15.9 13.5 11.5 COLE CREEK PILLOW 7850 2/01/97 11.1 13.4 10.2 COMBINATION PILLOW 5600 2/01/97 6.0 3.3 3.8 COPPER BOTTOM PILLOW 6950 2/01/97 14.3 10.1 7.4 COPPER CAMP PILLOW 6950 2/01/97 32.2 28.3 22.6 COPPER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COYOTE HILL 4200 1/31/97 42 14.0 8.0 7.5 CRYSTAL LAKE PILLOW 6050 2/01/97 9.8 4.9 8.4 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DAISY DEBAMAN CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DARKHORSE LK. PILLOW 6450 2/01/97 10.9 6.4 6.7 DISCOVERY BASIN 7050 1/28/97 45 12.4 9.0 6.8 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DUPUYER CREEK PILLOW 4350 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 EMERY CREEK PILLOW 4350 2/01/97 43.8 33.4 24.2	CHESSMAN RESERVOIR	6200	1/28/97	15	3.4	. 8	2.7	
COLE CREEK PILLOW 7850 2/01/97 11.1 13.4 10.2 COMBINATION PILLOW 5600 2/01/97 6.0 3.3 3.8 COPPER BOTTOM PILLOW 5200 2/01/97 14.3 10.1 7.4 COPPER CAMP PILLOW 6950 2/01/97 32.2 28.3 22.6 COPPER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COYOTE HILL 4200 1/31/97 42 14.0 8.0 7.5 CRYSTAL LAKE PILLOW 6050 2/01/97 9.8 4.9 8.4 9 8.4 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DAISY REEK PILLOW 8700 2/01/97 14.7 8.1 7.8 DARKHORSE LK. PILLOW 8700 2/01/97 14.7 8.1 7.8 DARKHORSE LK. PILLOW 6450 2/01/97 10.9 6.4 6.7 DISCOVERY BASIN 7050 1/28/97 45 12.4 9.0 6.8 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DUPUYER CREEK PILLOW 4350 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 4350 2/01/97 17.6 3.3 3.4 24.2	CHICKEN CREEK	4060	1/31/97	65	21.0	13.4	10.9	
COLE CREEK PILLOW 7850 2/01/97 11.1 13.4 10.2 COMBINATION PILLOW 5600 2/01/97 6.0 3.3 3.8 COPPER BOTTOM PILLOW 5200 2/01/97 14.3 10.1 7.4 COPPER CAMP PILLOW 6950 2/01/97 32.2 28.3 22.6 COPPER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COYOTE HILL 4200 1/31/97 42 14.0 8.0 7.5 CRYSTAL LAKE PILLOW 6050 2/01/97 9.8 4.9 8.4 9 8.4 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DAISY REEK PILLOW 8700 2/01/97 14.7 8.1 7.8 DARKHORSE LK. PILLOW 8700 2/01/97 14.7 8.1 7.8 DARKHORSE LK. PILLOW 6450 2/01/97 10.9 6.4 6.7 DISCOVERY BASIN 7050 1/28/97 45 12.4 9.0 6.8 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DUPUYER CREEK PILLOW 4350 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 4350 2/01/97 17.6 3.3 3.4 24.2	CLOVER MDW PILLOW	8800	2/01/97		15.9	13.5	11.5	
COPER BOTTOM FILLOW 5200 2/01/97 14.3 10.1 7.4 COPER CAMP FILLOW 6950 2/01/97 32.2 28.3 22.6 COPER CAMP FILLOW 6950 2/01/97 32.2 28.3 22.6 COPER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COYOTE HILL 4200 1/31/97 42 14.0 8.0 7.5 CRYSTAL LAKE PILLOW 6050 2/01/97 9.8 4.9 8.4 9 8.4 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DALY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 1 7.8 DARKHORSE 1K. PILLOW 6450 2/01/97 14.7 8.1 7.8 1 7.8 DARKHORSE 1K. PILLOW 6450 2/01/97 10.9 6.4 6.7 DISCOVERY BASIN 7050 1/28/97 45 12.4 9.0 6.8 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIVIDE PILLOW 7800 2/02/97 42 12.6 7.5 8.2 DIPUYER CREEK PILLOW 4350 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9	COLE CREEK PILLOW	7850	2/01/97		11 1	13 4	10.2	
COPER BOTTOM FILLOW 5200 2/01/97 14.3 10.1 7.4 COPER CAMP FILLOW 6950 2/01/97 32.2 28.3 22.6 COPER CAMP FILLOW 6950 2/01/97 32.2 28.3 22.6 COPER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COYOTE HILL 4200 1/31/97 42 14.0 8.0 7.5 CRYSTAL LAKE PILLOW 6050 2/01/97 9.8 4.9 8.4 9 8.4 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DALY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 1 7.8 DARKHORSE 1K. PILLOW 6450 2/01/97 14.7 8.1 7.8 1 7.8 DARKHORSE 1K. PILLOW 6450 2/01/97 10.9 6.4 6.7 DISCOVERY BASIN 7050 1/28/97 45 12.4 9.0 6.8 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIVIDE PILLOW 7800 2/02/97 42 12.6 7.5 8.2 DIPUYER CREEK PILLOW 4350 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9	COMBINATION PILLOW	5600	2/01/97		6.0	3.3	3.8	
COPPER CAMP PILLOW 6950 2/01/97 32.2 28.3 22.6 COPPER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COYOTE HILL 4200 1/31/97 42 14.0 8.0 7.5 CRYSTAL LAKE PILLOW 6050 2/01/97 9.8 4.9 8.4 P. ALSY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DAISY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DARKHORSE LK. PILLOW 6450 2/01/97 10.9 6.4 6.7 DISCOVERY BASIN 7050 1/28/97 45 12.4 9.0 6.8 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DIVIDE PILLOW 7500 2/01/97 9.4 6.9 7.8 PEMERY CREEK PILLOW 4350 2/01/97 9.4 6.9 7.8 PEMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 4350 2/01/97 43.8 33.4 24.2		W 5200	2 / 01 / 97		14.3	10.1	7.4	
COPPER MOUNTAIN 7700 1/29/97 45 13.5 7.9 7.0 COYOTE HILL 4200 1/31/97 42 14.0 8.0 7.5 CRYSTAL LAKE PILLOW 6050 2/01/97 9.8 4.9 8.4 ADAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DAIY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DARKHORSE LK. PILLOW 6450 2/01/97 33.6 26.9 22.0 DEADMAN CR PILLOW 6450 2/01/97 10.9 6.4 6.7 DISCOVERY BASIN 7050 1/28/97 45 12.4 9.0 6.8 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DIVIDE CREEK PILLOW 4350 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 4350 2/01/97 43.8 33.4 24.2	COPPER CAMP PILLOW	6950	2/01/97		32.2	28.3	22.6	
COYOTE HILL 4200 1/31/97 42 14.0 8.0 7.5 CRYSTAL LAKE PILLOW 6050 2/01/97 9.8 4.9 8.4 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DAISY GREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DARKHORSE LK. PILLOW 6450 2/01/97 10.9 6.4 6.7 DISCOVERY BASIN 7050 1/28/97 45 12.4 9.0 6.8 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DUPUYER CREEK PILLOW 4350 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 4350 2/01/97 43.8 33.4 24.2	COPPER MOUNTAIN	7700	1/29/97	45	13.5	7.9	7.0	
CRYSTAL LAKE PILLOW 6050 2/01/97 9.8 4.9 8.4 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DALY CREEK PILLOW 5780 2/01/97 14.7 8.1 7.8 DARKHORSE LK. PILLOW 6450 2/01/97 33.6 26.9 22.0 DEADMAN CR PILLOW 6450 2/01/97 10.9 6.4 6.7 DISCOVERY BASIN 7050 1/28/97 45 12.4 9.0 6.8 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DUPUYER CREEK PILLOW 4350 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 4350 2/01/97 43.8 33.4 24.2	COYOTE HILL	4200	1/31/97	42	14.0	8.0	7.5	
DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 AISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DAISY PEAK 7600 1/29/97 14.7 8.1 7.8 DARKHORSE IK. PILLOW 8700 2/01/97 33.6 26.9 22.0 DEADMAN CR PILLOW 6450 2/01/97 10.9 6.4 6.7 DISCOVERY BASIN 7050 1/28/97 45 12.4 9.0 6.8 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DUPUYER CREEK PILLOW 5750 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 4350 2/01/97 43.8 33.4 24.2	CRYSTAL LAKE PILLOW	6050	2/01/97			4.9	8.4	
DAISY PEAK 7600 1/29/97 36 8.7 7.2 7.0 DAISY PEAK 7600 1/29/97 14.7 8.1 7.8 DARKHORSE LK. PILLOW 8700 2/01/97 13.6 26.9 22.0 DEADMAN CR PILLOW 6450 2/01/97 10.9 6.4 6.7 DISCOVERY BASIN 7050 1/28/97 45 12.4 9.0 6.8 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DIVIDE PILLOW 3505 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 4350 2/01/97 43.8 33.4 24.2	DAISY PEAK	7600	1/29/97	36	8.7	7.2	7.0	
DARKHORSE LK. PILLOW 8700 2/01/97 33.6 26.9 22.0 DEADMAN CR PILLOW 6450 2/01/97 10.9 6.4 6.7 DISCOVERY BASIN 7050 1/28/97 45 12.4 9.0 6.8 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DUPUYER CREEK PILLOW 5750 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 100 2/01/97 43.8 33.4 24.2	DAISY PEAK		1/29/97	36				
DARKHORSE LK. PILLOW 8700 2/01/97 33.6 26.9 22.0 DEADMAN CR PILLOW 6450 2/01/97 10.9 6.4 6.7 DISCOVERY BASIN 7050 1/28/97 45 12.4 9.0 6.8 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DUPUYER CREEK PILLOW 5750 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 100 2/01/97 43.8 33.4 24.2	DALY CREEK PILLOW	5790	2/01/97					
DISCOVERY BASIN 7050 1/28/97 45 12.4 9.0 6.8 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DUPUYER CREEK PILLOW 5750 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 9100 2/01/97 43.8 33.4 24.2		W 8700	2/01/97					
DISCOVERY BASIN 7050 1/28/97 45 12.4 9.0 6.8 DIVIDE PILLOW 7800 2/01/97 11.3 7.2 6.9 DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DUPUYER CREEK PILLOW 5750 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 9100 2/01/97 43.8 33.4 24.2		6450	2/01/97		10.9			
DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DUPUYER CREEK PILLOW 5750 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 9100 2/01/97 43.8 33.4 24.2			1/28/97	45	12.4			
DIX HILL 6400 2/02/97 42 12.6 7.5 8.2 DUPUYER CREEK PILLOW 5750 2/01/97 9.4 6.9 7.8 EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 9100 2/01/97 43.8 33.4 24.2		7800	2/01/97		11.3			
EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 9100 2/01/97 43.8 33.4 24.2	DIX HILL	6400	2 /02 /97	42	12.6			
EMERY CREEK PILLOW 4350 2/01/97 17.6 7.7 10.9 FISHER CREEK PILLOW 9100 2/01/97 43.8 33.4 24.2	DUPUYER CREEK PILLO	W 5750	2/01/97		9.4			
FISHER CREEK PILLOW 9100 2/01/97 43.8 33.4 24.2 FLATTOP MTN PILLOW 6300 2/01/97 46.4 40.1 32.3		4350	2/01/97		17.6			
FLATTOP MTN PILLOW 6300 2/01/97 46.4 40.1 32.3		9100	2/01/97		43.8			
			2/01/97					

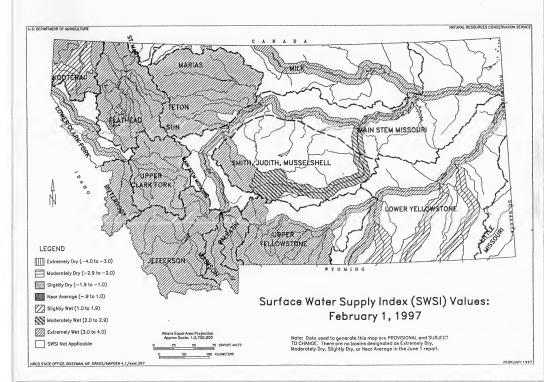
SNOW COURSE	ELEVATION		DEPTH		YEAR	AVERAGE 1961-90
FOURTH OF JULY	3450	2/04/97	47	13.1	6.0	
FROHNER MDWS PILLOW	6480	2/01/97		7.3	5.0	5.6
GARVER CREEK PILLOW	4250 4300 5030	2/01/97		13.6 17.4		7.3
GRAVE CRK PILLOW	4300	2/01/97		17.4	11.3	11.9
HAND CREEK PILLOW	5030	2/01/97		17.4 14.8 25.2	8.2	8.3
HAWKINS LAKE PILLOW	6450	2/01/97		25.2	19.4	19.3
HEBGEN DAM	6550	1/30/97	47	13.1	6.9	8.3
HELL ROARING DIVIDE	5770	1/31/97	89	28.0	23.9	20.5
HERRIG JUNCTION	4850	1/31/97	84	27.8	23.0	16.7
HELL ROARING DIVIDE HERRIG JUNGTION HOLBROOK HOODDO BASIN PILLOW HOODDO CREEK INTERGAARD JOHNSON PARK YULANIS CAMP	4530	1/27/97	48	14.3	7.5	7.2
HOODOO BASIN PILLOW	6050	2/01/97		50.2	29.7	31.0
HOODOO CREEK	5900	1/29/97	129	43.6	29.2	30.3
INTERGAARD	6450	1/28/97	34	9.9	4.6	5.2
JOHNSON PARK	6450	1/29/97	29	5.4	3.4	4.8
KIWANIS CAMP	3720	1/29/97	10	2.9	. 9	1.6
KRAFT CREEK PILLOW	4750	2/01/97		20.2	9.7	11.4
LAKEVIEW RDG. PILLO	J 7400	2/01/97		11.4	7.0	8.3
LEMHI RIDGE PILLOW	8100	2/01/97		10.6	8.5	6.9
LICK CREEK PILLOW	5030 6450 6550 5770 4850 4530 6050 5900 6450 6450 77400 8100 6860 7900 4680 4680 4680 4680 4680 4680 4650 5900 6450 6860 7900 6860 6860 7900 6860 6860 6860 6860 6860 6860 6860 6	2/01/97		10.9	5.8	8.1
LONE MOUNTAIN PILLO	V 8880	2/01/97		21.0	17.1	11.5
LOWER TWIN PILLOW	7900	2/01/97		20.1	15.1	12.3
LUBRECHT PILLOW	4680	2/01/97		8.1	4.1	4.5
LUBRECHT FOREST NO	3 5450	1/31/97	32	9.0	4.5	5.0
LUBRECHT FOREST NO 4	4650	1/31/97	22	6.7	2.4	2.7
LUBRECHT FOREST NO 6	4040	1/31/97	26	7.4	3.0	
LUBRECHT FOREST NO 2 LUBRECHT FOREST NO 6 LUBRECHT FOREST NO 6 LUBRECHT HYDROPLOT MADISON PLT PILLOW MANY GLACIER PILLOW MARIAS PASS MAYNARD GREEK MONUMENT PK PILLOW MOSS PEAK PILLOW	4200	1/31/97	32	8.8	5.1	5.4
MADISON PLT PILLOW	7750	2/01/97 2/01/97 1/31/97 1/30/97 2/01/97 2/01/97 2/01/97 2/01/97 2/01/97 1/31/97		31.9	19.4	16.1 11.4
MANY GLACIER PILLOW	4900	2/01/97		18.1	9.3	11.4
MARIAS PASS	5250	1/31/97	65	23.4	10.0	11.2
MAYNARD CREEK	6210	1/30/97	55	17.3	7.5	
MONUMENT PK PILLOW	8850	2/01/97		26.8	18.6	13.9
MOSS PEAK PILLOW	6780	2/01/97		44.0	30.7	24.4
MT LOCKHART PILLOW	6400	2/01/97		20.1	16.5	14.0
MT LOCKHART PILLOW MULE CREEK PILLOW	8300	2/01/97		26.8 44.0 20.1 17.2 15.2 14.4 16.6 37.4	14.9	10.2
MENADA CKEEK FILLOW	6480	2/01/97		15.2	10.4	8.6
NEVADA RIDGE PILLOW	7020	2/01/97		14.4	12.7	11.1
NEW WORLD NEWTON MOUNTAIN NEZ PERCE CMP PILLOW	6900	1/31/97	51	16.6	9.0	9.6
NEWTON MOUNTAIN	5600	1/28/97	96	37.4	22.7	22.2
NEZ PERCE CMP PILLOV	1 5650	2/01/97		16.5	12.5	9.8
			36	10.0	3.0	4.5
NOISY BASIN PILLOW	6040	2/01/97		46.8	30.4	26.2
NOISY BASIN PILLOW N.F. ELK CR PILLOW NF JOCKO PILLOW	6250	2/01/97		16.6 37.4 16.5 10.0 46.8 13.6 44.1 9.3 15.9	9.2	8.1
N F FREDANCE DILLOW	6330	2/01/97		44.1	33.8	28.6
N.E. ENIRANCE PILLOV	7350	2/01/97		9.3	8.2	6.4
DETERGON MEADONG	7150	2/02/97	52	15.9	12.6	11.2
PICKEOUT CRY PITTON	/200	1/28/97	39	13.6 44.1 9.3 15.9 10.2 11.7 28 7	6.4	
PILE CREEK BILLOW	5030	2/01/9/		11.7	8.3	
DIDECTONE DACC	7200	1/01/9/				17.1
N.F. ELK CR PILLOW NF JOCKO PILLOW N.E. ENTRANCE PILLOW OPHIR PARK PETERSON MEADOWS PICKFOOT CRK PILLOW PIKE CREEK PILLOW PIPESTONE PASS PLACER BASIN PILLOW PORCUPINE PILLOW	/200	1/28/9/	24	6.8 18.8	2.2	3.3
DODCIDING DILLOW	6500	2/01/9/		18.8		
TOYCOLINE LIFTOM	6300	2/01/9/		9.7	4.0	4.8

	SNOW COURSE	ELEVATION	DATE		WATER CONTENT		AVERAGE 1961-90
	RED TOP	5260	1/28/97		28.8		
	ROCKER PEAK PILLOW		2/01/97		28.8 13.3	11.1	9.8
		4700	2/01/97		4.2	3.0	3.6
	ROCKY BOY	4700	1/29/97	16	3.4	1.5	3.2
	SACAJAWEA	6550	1/30/97	51	16.8		
	SADDLE MTN PILLOW		2/01/97		28.6	25.6	17.0
	SHORT CREEK PILLOW	7000	2/01/97		5.2	3.6	3.6
	SHOWER FALLS PILLOW		2/01/97		00 5	17.1	14.8
	SILVER RUN PILLOW	6630	2/01/97		4.8		3.6
	SKALKAHO PILLOW	7260	2/01/97		28.0	22.7	15.8
	S.F. SHIELDS PILLOW	8100	2/01/97		21.6	13.6	10.7
	SPOTTED BEAR MTN.	7000	1/27/97				10.3
	SPUR PARK PILLOW	8100	2/01/97		15.2 19.2	16.6	14.8
	SOHAW PEAK PILLOW	6150	2/01/97		20.0		9.9
	STAHL PEAK PILLOW	6030 6030	2/01/97		33.9	34.5	23.5
	STAHL PEAK	6030	1/28/97	103	35.5		23.5 26.4
	STEMPLE PASS	6600	1/30/97		10.3	5.8	
	STORM LAKE	7780	1/28/97	45	12.9	9.5	8.7
	STRYKER BASIN	6180	1/31/97	98	34.6	29.6	21.6
	STUART MOUNTAIN	7400	1/27/97	104	37.1	29.0	21.2
	STUART MOUNTAIN PIL	L 7400	1/27/97 2/01/97		34.8	26.8	20.3
	SUCKER CREEK	3960	1/29/97	4	. 4	.7	. 5
	TAYLOR ROAD	4080	1/29/97 1/29/97	16	3.9 7.2	1.0	2.9
	TEN MILE LOWER	6600	1/29/97	29	7.2	3.3	5.0
	TEN MILE MIDDLE	6800	1/29/97	37	9 7	7.6	7.6
	TEPEE CREEK PILLOW	8000	2/01/97		14.7	0.2	
	TIZER BASIN PILLOW	6840	2/01/97		0.2	7.4	7.2
	TRINKUS LAKE	6100	1/27/97	133		28.0	25.0
	TRUMAN CREEK	4060	2/02/97	30	8.4		3.2
	TV MOUNTAIN	6800	2/01/97		20.4E		12.0
	TWELVEMILE PILLOW	5600	2/01/97		20.5	10.4	12.5
	TWENTY-ONE MILE	7150	1/30/97	66	20.6	12.6	11.7
	TWIN LAKES PILLOW	6400	2/01/97		45.7	31.5	26.3
	UPPER HOLLAND LAKE	6200	1/27/97	108	34.2	25.6	23.4
	WALDRON PILLOW	5600	2/01/97		12./	8.0	7.8
	WARM SPRINGS PILLOW	7800	2/01/97		21.7		14.1
	WEASEL DIVIDE	5450	1/29/97	93 46	32.0 12.5	28.0	21.8
	WEST YELLOWSTONE	6700	1/30/97				7.8
	WHISKEY CREEK PILLO	W 6800	2/01/97				11.2
	WHITE MILL PILLOW		2/01/97			24.6	16.8
	WOOD CREEK PILLOW	5960	2/01/97		11.4	6.6	7.1
(d)	Denotes discontinue	d site.					











Montana Water Supply Outlook Report as of February 1, 1997

January storms tracked mainly along the Continental Divide with the southwest, central, and southcentral regions getting most of the storm activity. Temperatures during the January remained very cold mainly east of the Divide as arctic air move south, southeast out of Canada. There was some valley melting during January, with only settling of the mountain snowpack.

Snowpack

As of February 1, mountain snow water content in Montana was 165 percent of average and 144 percent of last year. Unlike last year, the mountain snowpack is well above average at all elevations. Last year the high elevation snowpack was above to well above average and the low to mid elevation snowpack was average to below average.

With about 40 percent of the normal snow accumulation period remaining, most areas remain well above average and several major river basins continue to set new snow water content records. New February 1 snowpack records have occurred in the Kootenai, Jefferson, Madison, Gallatin, Upper Yellowstone, and Lower Yellowstone River Basins.

West of the Continental Divide, snow water content was 161 percent of average and 145 percent of last year. East of the Continental Divide snow water content was 162 percent of average and 135 percent of last year.

RIVER BASIN % OF	AVERAGE	% OF LAST	YEAR
COLUMBIA	162		146
KOOTENAI	153		144
FLATHEAD	165		141
BITTERROOT	171		142
LOWER CLARK FORK	164		163
MISSOURI	163		149
MISSOURI HEADWATERS	173		151
JEFFERSON	168		142
MADISON	181		150
GALLATIN	174		153
MISSOURI MAINSTEM	143		146
HEADWATERS MAINSTEM	140		134
SMITH-JUDITH-MUSSELSHELL	140		143
SUN-TETON-MARIAS	155		146
MILK	119		209
ST. MARY	148		131
ST. MARY & MILK	139		149
YELLOWSTONE	161		124
UPPER YELLOWSTONE	177		129
LOWER YELLOWSTONE (WYOMING)	150		118
WIND	167		124
SHOSHONE	177		113
BIGHORN	148		114
TONGUE	123		109
POWDER	124		129

Precipitation

January precipitation across the state was 121 percent of average and 98 percent of last year, while the water year precipitation was 158 percent of average and 113 percent of last year.

West of the Continental Divide, January precipitation was 108 percent of average 85 percent of last year and water year precipitation was 157 percent of average and 104 percent of last year. East of the Divide, January precipitation was 133 percent of average and 110 percent of last year and water year precipitation was 158 percent of average and 121 percent of last year.

	JANUARY	WATER YEAR
RIVER BASIN % O	F AVERAGE	% OF AVERAGE
COLUMBIA	108	157
KOOTENAI	98	151
FLATHEAD	105	160
UPPER CLARK FORK	117	157
BITTERROOT	119	162
LOWER CLARK FORK	98	150
MISSOURI	125	154
JEFFERSON	149	161
MADISON	143	178
GALLATIN	168	168
MISSOURI MAINSTEM	88	132
SMITH-JUDITH-MUSSELSHELL	94	138
SUN-TETON-MARIAS	84	136
MILK	67	108
ST. MARY	118	152
YELLOWSTONE	147	159
UPPER YELLOWSTONE	159	174
LOWER YELLOWSTONE	136	146
WIND	127	152
SHOSHONE	165	189
BIGHORN	129	120
TONGUE	147	121
POWDER	97	117

Reservoirs

Major reservoir storage statewide was 1 percent below average and 17 percent below last year.

Reservoir storage west of the Continental Divide was 4 percent below average and 23 percent below last year. East of the Divide, reservoir storage was 8 percent above average and 5 percent below last year.

Many reservoirs in southwest and southcentral Montana will be drawn down earlier than normal this year in anticipation of the high spring inflows from record snowpacks. Recreationist planning on using reservoirs in these regions should plan accordingly and those fishing, canoeing, or boating below the reservoirs need to be alert for changing releases from the reservoirs. When possible, reservoir owners should be contacted to obtain their management plans until the spring runoff peaks have passed.

RIVER BASIN	% OF CAPACIT	Y %	OF	AVERAGE
COLUMBIA	96			77
KOOTENAI	105			86
FLATHEAD	90			71
UPPER CLARK FORK	110			88
BITTERROOT	78			58

RIVER BASIN % OF CA	PACITY * OF AVERAG	315
LOWER CLARK FORK 9	8 95	
MISSOURI	104 9	92
JEFFERSON	113 9	9
MADISON	103 10	2
GALLATIN	192	
MISSOURI MAINSTEM	97 9	94
SMITH-JUDITH-MUSSELSHELL	104 7	73
SUN-TETON-MARIAS	119 8	35
MILK	124 10	2
ST. MARY	122 9	96
YELLOWSTONE	98 9	97
UPPER YELLOWSTONE	104 13	LO
LOWER YELLOWSTONE	98 9	97

Streamflow

Streamflow forecasts across Montana were 143 percent of average and 124 percent of last years forecasts. Several forecasts are near or above previous maximum flows. Note the streamflow section in each of the major river basin write ups for details.

West of the Continental Divide, streamflows were forecast to be 143 percent of average and 120 percent of last years forecasts. East of the Divide, streamflows were forecast to be 154 percent of average and 132 percent of last years forecasts.

	FO	RECA	ASTS	F	ORECAS	STS
RIVER BASIN	% OF	AVE	ERAGE	\$ r OF	LAST	YEAR
COLUMBIA		1 4 2			100	
COLUMBIA						
KOOTENAI						
FLATHEAD		133		 	113	
UPPER CLARK FORK		158		 	140	
BITTERROOT		152		 	120	
LOWER CLARK FORK		150		 	128	
MISSOURI		155		 	139	
JEFFERSON		166		 	141	
MADISON		144		 	128	
GALLATIN		150		 	139	
MAINSTEM MISSOURI		171		 	146	
SMITH-JUDITH-MUSSELSHELL .		147		 	107	
SUN-TETON-MARIAS		147		 	132	
MILK		126		 	125	
ST. MARY		121		 	113	
ST. MARY & MILK		124		 	119	
YELLOWSTONE		152		 	124	
UPPER YELLOWSTONE		149		 	123	
LOWED VELLOWSTONE		156			124	

NOTE: The FORECAST AS % OF LAST YEAR column above, is this years forecast as a percnet of last years forecast, not of what actually occurred.

Surface Water Supply Index

The Surface Water Supply Index (SWSI) is an indicator of surface water supply conditions for the spring and summer months. Water users that rely on mountain precipitation can use the indes to evaluate seasonal surface water supplies. The SWSI accounts for mountain snowpack, mountain precipitation, streamflow, reservoir storage, and soil moisture.

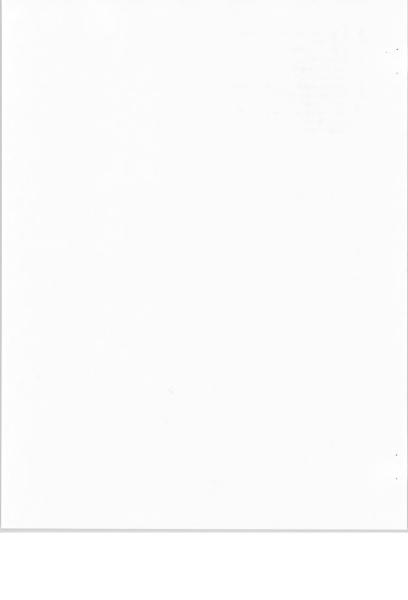
SWSI	RATING	SURFACE WATER CONDITION
	to +4.0	Extremely Wet
	to +3.0 to +2.0	Moderately Wet Slightly Wet
	to +1.0	Near Average
	to -2.0	Slightly Dry
	to -3.0	Moderately Dry
-3.0	to -4.0	Extremely Dry

SWSI

Basin

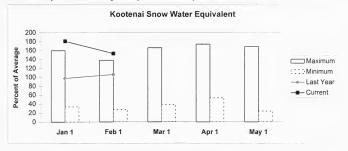
- +1.9 Kootenai River at Ft. Steele (Kootenai in Canada)
- +3.5 Tobacco River
- +1.5 Kootenai Ft. Steele to Libby Dam
- +1.4 Kootenai River below Libby Dam
- +3.9 Fisher River
- Yaak River +3.3
- +3.8 North Fork Flathead River
- +3.7 Middle FORK Flathead River
- +3.6 South Fork Flathead River
- +3.7 Flathead River at Columbia Falls
- +3.6 Stillwater/Whitefish Rivers
- +3.8 Swan River
- Flathead River at Polson +3.3
- +3.9 Mission Valley
- +3.6 Little Bitterroot River +3.4 Clark Fork River above Rock Creek
- +3.4 Blackfoot River
- +3.4 Clark Fork River above Missoula
- +3.8Bitterroot River
- Clark Fork River below Bitterroot River +3.5
- Clark Fork River below Flathead River +3.4
- +3.5 Beaverhead River
- +3.1 Ruby River
- +3.6 Big Hole River
- Boulder River (Jefferson) +3.0
- Jefferson River +3.5
- +4.0Madison River
- +3.7 Gallatin River
- +3.7 Missouri River above Canyon Ferry
- +3.7 Missouri River below Canyon Ferry
- +3.4 Smith River
- +3.2 Sun River
- +3.0 Teton River
- +3.3 Birch/Dupuyer Creeks
- +3.4 Marias River
- +2.4 Musselshell River
- +3.4 Missouri River above Ft. Peck
- +3.4 Missouri River below Ft. Peck
- +3.0 Milk River

- +4.0 Yellowstone River above Livingston
- +3.7 Shields River +4.0 Boulder River (Yellowstone)
- +3.8 Stillwater River
- +3.8 Rock/Red Lodge Creeks
- +4.0 Clarks Fork River
- Yellowstone River above Bighorn River +4.0
- +3.6 Bighorn River below Bighorn Lake
- +1.9 Little Bighorn River
- +3.6 Yellowstone River below Bighorn River
- +1.6 Tongue River
- +1.9 Powder River



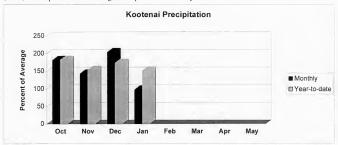
Kootenai River Basin in Montana

Snowpack conditions in the Kootenai River Basin in Montana and Canada were well above average. Snow water content for the Kootenai in Montana was 53 percent above average and 44 percent above last year. This has set a new that was previously set in 1972 and was 38 percent above average. Snow water content for the Kootenai in Canada was 28 percent above average and 1 percent below last year.



January meximum swe was established in 1985 and minimum was in 1977, February maximum swe was in 1972 and minimum swe was in 1972 and minimum swe was in 1972 and minimum swe was in 1973, perli maximum swe was in 1974 and minimum swe was in 1977, the properties of the properties of 1974 and minimum swe was in 1974. A set 1974 and minimum swe was in 1974 and minimum swe was in 1974. A set 1974 and minimum swe was in 1974. A set 1974 and minimum swe was in 1974. A set 1974 and minimum swe was in 1974. A set 1974 and minimum swe was in 1975, and minimum swe was in 1974, and minimum swe was in 1974, and minimum swe was in 1974, and minimum swe was in 1975, and minimum swe was in 1974, and minimum swe was in 1974,

Mountain precipitation during January was average and 20 percent below last year. Valley precipitation was 36 percent below average and 47 percent below last year. Water year precipitation for the basin, beginning October 1, 1996, was 51 percent above average and 1 percent above last year.



Lake Koocanusa storage on the last day of January was 5 percent above average and 14 percent below last year.

Streamflows, for the period April through July, are forecast to be 20 percent above average and the same as last years forecasts. The Fisher River near Libby is forecast to exceed the previous maximum flow for the April-July period. The previous record was 385,200 acre-feet in 1974.

Surface Water Supply Indexes (SWSI's) were +1.9 in the Kootenai at Ft. Steele (Kootenai in Canada); +3.5 in the Tobacco River; +1.5 in the Kootenai Ft. Steele to Libby Dam; +1.4 in the Kootenai River below Libby Dam; +3.9 in the Fisher River; and +3.3 in the Yaak River.

KOOTENAI RIVER BASIN in Montana Streamflow Forecasts - February 1, 1997

		Der camer.			, 2, 200.				
		<<=====	Drier	Putur	e Conditions				
		ĺ							
Forecast Point					Of Exceeding				
	Period	90%	70%		lost Probable		30%	10%	30-Yr Avg.
			(1000AF)		AF) (% AVG.		1000AF)	(1000AF)	(1000AF)
TOBACCO RIVER or Rureka	APR-JUL	174	189	20					
TOBACCO RIVER DE EUFERA	APR-SEP	190	208	20			211	226 250	133
	APR-SEP	190	200	- 22	0 150		232	250	147
LIBBY RES Inflow (1.2)	APR-JUL	5365	6262	667	0 115	1	7078	7975	5779
	APR-SEP	6289	7342	782	0 116	i	8298	9351	6772
				- i		İ			
FISHER RIVER near Libby	APR-JUL	359	383	4.0		ĺ	417	441	234
	APR-SEP	383	408	42	5 170	1	442	467	250
		688	731	76	0 157				
YAAK RIVER near Troy	APR-JUL APR-SEP	717	731	76		-	789 820	832 863	483
	AFR-DDF	111	760	/2	0 136	-	020	863	505
KOOTENAI at Leonia (1.2)	APR-JUL	6851	7985	850	0 118	1	9015	10149	7199
	APR-SEP	7873	9177	977		i	10363	11667	8275
				i		i			
RESERVOIR STORAGE	RIVER BASIN in M							in Montan	
Reservoir Storage				<u> </u>	Watershed	1 Snowpac	K Analys	ıs - Febru	ary 1, 1997
			ole Storage				Numbe		Year as % of
Reservoir	Capacity		Last		atershed		of		**********
	1	Year	Year .	Avg					Yr Average
LAKE KOOCANUSA	5748.0	2499.0	2922.0 23	81.0 K	OOTENAY in CA	ANADA	17	97	127
					OOTENAI MAINT		_		
				1 1	OUTENAL MAIN	LRI.EM	2	171	151
					OBACCO		3	113	146
				1 -	ODMCCO			113	240
				F	ISHER		1	180	178
				İ					
				Y	AAK		4	154	158
				K	OOTENAI in MO	MI'ANA	10	144	153
				A	by BONNERS FE	PRV	27	116	139
					- · · · · · · · · · · · · · · · · · · ·		2,	110	433

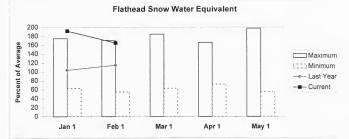
^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

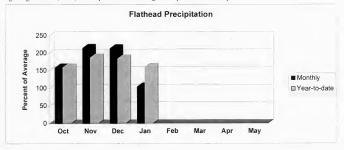
Flathead River Basin

Snowpack conditions in the Flathead River Basin of Montana and Canada were well above average. Snow water content for the Flathead in Montana was 65 percent above average and 41 percent above last year. Snow water content for the North Fork Flathead in Canada was 66 percent above average and 40 percent above last year.



January maximum swe was established in 1991 and minimum was in 1988. February maximum swe was in 1972 and minimum was in 1977. March maximum swe was in 1972 and minimum was in 1972, and minimum was in 1972 and minimum was in 1972 and minimum was in 1972 and minimum was in 1982 and minimum was in 1992. The stable of the sta

Mountain precipitation during January was 7 percent above average and 20 percent below last year. Valley precipitation during January was 14 percent below average and 29 percent below last year. Water year precipitation for the basin. beginning October 1, 1996, was 60 percent above average and 4 percent above last year.



Reservoir storage on the last day of January was 10 percent below average and 29 percent below last year. Combined Camas reservoir storage was 61 percent above average and 69 percent above last year; combined Mission Valley reservoir storage was 17 percent below average and 27 percent below last year; Hungry Horse storage was 16 percent below average and 30 percent below last year; and Flathead Lake storage was 3 percent above average and 28 percent below last year.

Streamflows, for the period April through July, are forecast to be 33 percent above average and 13 percent above last years forecasts. The Stillwater near Whitefish is forecast to exceed the previous record of 329,300 acre-feet in 1974.

Surface Water Supply Indexes (SWSI's) were +3.8 in the North Fork Flathead River; +3.7 in the Middle Fork Flathead River; +3.6 in the South Fork Flathead River; +3.7 in the Flathead River at Columbia Falls; +3.6 in the Stillwater/Whitefish Rivers; +3.8 in the Swan River; +3.3 in the Flathead River at Polson; +3.9 in the Mission Valley; and +3.6 in the Little Bitterroot River.

FLATHEAD RIVER BASIN
Streamflow Forecasts - Pebruary 1, 1997

| <====== Drier ===== Puture Conditions ====== Wetter =====>>

		1						
Forecast Point	Forecast			== Chance Of	Exceeding * =			
	Period	90%	70%		t Probable)	3.0%	10%	30-Yr Avg.
		(1000AF	(1000AF)	(1000AF) (% AVG.)	(1000AF)	(1000AF)	(1000AF)
NF FLATHEAD nr Columbia Falls	APR-JUL	1954	2071	2150	129	2229	2346	1662
	APR-SEP	2170	2295	2380	130	2465	2590	1836
				i	i			
MF FLATHEAD nr West Glacier	APR-JUL	1895	2041	2140	131	2239	2385	1638
	APR-SEP	2077	2234	2340	131	2446	2603	1788
				į.	i			
HUNGRY HORSE Reservoir Inflow (1,2)	APR-JUL	2344	2610	2730	133	2850	3116	2051
	APR-SEP	2492	2773	2900	133	3027	3308	2184
				İ	į.			
FLATHEAD at Columbia Falls (2)	APR-JUL	6369	6834	7150	130	7466	7931	5482
	APR-SEP	6937	7439	7780	131	8121	8623	5960
					1			
STILLWATER nr Whitefish	APR-JUL	291	317	335	177	353	379	189
	APR-SEP	327	355	375	179	395	4.23	209
WHITEFISH nr Kalispell	APR-JUL	150	162	170	164	178	190	104
	APR-SEP	167	181	190	164	199	213	116
SWAN RIVER near Bigfork	APR-JUL	675	734	775	133	816	875	583
	APR-SEP	788	858	905	136	952	1022	665
FLATHEAD Lake Inflow (1,2)	APR-JUL	7451	8296	8680	136	9064	9909	6390
	APR-SEP	8076	8993	9410	136	9827	10744	6926
	RIVER BASIN					THEAD RIVER		
Reservoir Storage (100)		of Janua	en r		Watershed Sno			1 1007
Reservoir Storage (1000								
	Usable		ole Storage			Numbe		Year as % of
Reservoir	Capacity	This	Last		ershed	of		
		Year		Ava				Yr Average
								TI AVCIAGO
CAMAS (4)	45.2	31.3	18.5	19.4 NOR	TH FORK PLATHER	AD in CA 0	0	0
								-
MISSION VALLEY (8)	100.0	30.2	41.3	36.2 NOR	TH FORK FLATHER	AD in MT 7	120	147
HUNGRY HORSE	3451.0	1984.0	2820.0 23	62.0 MID	DLE FORK FLATHI	EAD 5	142	155
				i				
FLATHEAD LAKE	1791.0	1124.0	1572.0 10	95.0 SOU	TH FORK FLATHER	AD 6	160	172
				STI	LLWATER-WHITEF:	ISH 7	135	168
				i				

2

28

28

156

1,96

139

142

142

187

225

169

165

165

MISSION VALLEY

FLATHEAD BASIN

FLATHEAD in MONTANA

JOCKO

LITTLE BITTERROOT-ASHLEY 2

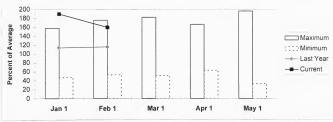
^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table. The average is computed for the 1961-1990 base period.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

Upper Clark Fork River Basin

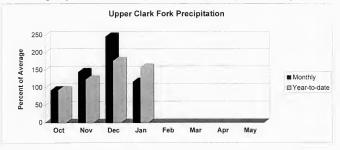
Snowpack conditions in the Upper Clark Fork River Basin were well above average. Snow water content was 60 percent above average and 37 percent above last year.

Upper Clark Fork Snow Water Equivalent



January maximum swe was established in 1978 and minimum swe was in 1977. February maximum was in 1972 and minimum swe was in 1977 and minimum swe was in 1972 and minimum swe was in 1972 and minimum swe was in 1974 and minimum swe was in 1974 and minimum swe was in 1974 and minimum swe was in 1974 and minimum swe was in 1974 and minimum swe was in 1975 and minimum

Mountain precipitation during January was 15 percent above average and 10 percent below last year. Valley precipitation during January was 31 percent above average and the same as last year. Water year precipitation for the basin, beginning October 1, 1996, was 57 percent above average and 12 percent above last year.



Reservoir storage on the last day of January was 10 percent above average and 12 percent below last year. Georgetown Lake storage was 9 percent above average and 4 percent above last year, Lower Willow Creek storage was 7 percent above average and 60 percent below last year, and Nevada Creek storage was 16 percent above average and 42 percent below last year.

Streamflows, for the period April through July, are forecast to be 58 percent above average and 40 percent above last years forecasts. The Middle Fork Rock Creek near Philipsburg April-July is forecast to exceed the previous record of 98,450 acre-feet in 1965; Clearwater near Clearwater April-July is forecast to exceed the previous record of 226,100 acre-feet in 1976; and the Blackfoot near Bonner is forecast to exceed the previous record of 1,317,400 acre-feet in 1972.

Surface Water Supply Indexes (SWSI's) were +3.4 in the Clark Fork River above Rock Creek; +3.4 in the Blackfoot River; and +3.4 in the Clark Fork River above Missoula.

UPPER CLARK FORK RIVER BASIN Streamflow Forecasts - February 1, 1997

Forecast Point	Forecast			- Future Cor Chance Of E				
10200000 102110	Period	90%	70%		Probable)	30%	10%	30-Yr Ave
		(1000AF)		(1000AF)		(1000AF)	(1000AF)	(1000A
ARM SPRINGS CK at Anaconda (2)	APR-JUL	38	45	50	132	55	62	36
AN SPATIOS CA AC MIACOLIGA (8)	APR-SEP	47	55	60	128	66	74	4
ETTLE BLACKFOOT or Garrison	APR-JUL	60	90	110	133	130	160	8
	APR-SEP	67	99	120	135	141	173	85
LINT CK nr Southern Cross (2)	APR-JUL	13.5	17.4	20	141	23	27	14.3
	APR-SEP	15.8	21	24	144	27	32	16.7
LINT CK bl Boulder Ck	APR-JUL	58	72	82	144	92	106	57
	APR-SEP	75	92	104	143	116	133	7
OWER WILLOW CK RES Inflow	APR-JUL	15.4	19.3	22	157	25	29	14.
	APR-SEP	16.2	20	23	155	26	30	14.
ROCK CREEK nr Philipsburg	APR-JUL	86	97	105	159	113	124	6
	APR-SEP	94	107	115	155	123	136	74
NCK CREEK near Clinton	APR-JUL	384	438	475	161	512	566	29
	APR-SEP	424	484	525	158	566	626	33
EVADA CK nr Finn	APR-JUL	18.0	22	25	131	28	32	19.
	APR-SEP	19.6	24	27	129	30	34	2:
EARWATER nr Clearwater	APR-JUL	248	264	275	160	286	302	173
	APR-SEP	262	279	290	160	301	318	181
ACKFOOT RIVER near Bonner	APR-JUL	1147	1256	1330	159	1404	1513	835
	APR-SEP	1281	1400	1480	160	1560	1679	920
ARK FORK ab Milltown	APR-JUL	774	927	1030	158	1133	1286	653
	APR-SEP	908	1076	1190	158	1304	1472	75
ARK FORK ab Missoula	APR-JUL	1977	2205	2360	159	2515	2743	148
	APR-SEP	2253	2501	2670	159	2839	3087	1683

UPPER CLARK I Reservoir Storage (100					UPPER CLARK FO Watershed Snowpack A			
Reservoir Scorage (100	o At) - Blid	Or Dalidary			watershed Showpack A	maryers -	repruary 1	, 1997
Reservoir	Usable Capacity	*** Usabl This Year	e Storage Last Year	*** Avg	Watershed	Number of ta Sites	This Year Last Yr	
GEORGETOWN LAKE	31.0	29.4	28.2	27.0	CLARK FORK abv FLINT CRK	10	128	145
LOWER WILLOW CREEK	4.9	1.6	4.0	1.5	FLINT CREEK	6	147	164
NEVADA CREEK	12.6	5.0	8.6	4.3	ROCK CREEK	3	132	164
					CLARK FORK abv BLACKFOOT	16	133	155
				i	BLACKFOOT	15	141	163
					UPPER CLARK FORK BASIN	28	137	160

^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

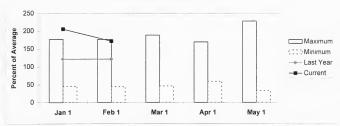
^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

Bitterroot River Basin

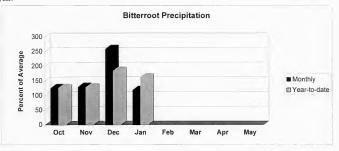
Snowpack conditions in the Bitterroot River Basin were well above average. Snow water content was 71 percent above average and 42 percent above last year.





January maximum swe was established in 1965 and minimum swe in 1977; February maximum swe was in 1972 and minimum was in 1977; March maximum swe was in 1972 and minimum swe was in 1977. April maximum swe was in 1972 and minimum swe was in 1977; May maximum swe was in 1972 and minimum swe was in 1987, and June maximum swe was 1972 and 1974 and minimum swe was in 1987 and 1992. Average is for the period 1961 through 1994.

Mountain precipitation during January was 19 percent above average and 2 percent above last year. Valley precipitation during January was 17 percent above average and 17 percent below last year. Water year precipitation for the basin, beginning October 1, 1996, was 62 percent above average and 2 percent above last year.



Reservoir storage on the last day of January was 22 percent below average and 42 percent below last year. Painted Rocks Lake storage was 56 percent below average and 63 percent below last year; Como storage was 16 percent above average and 23 percent below last year.

Streamflows, for the period April through July, are forecast to be 52 percent above average and 20 percent above last years forecasts.

Surface Water Supply Index (SWSI) was +3.8 in the Bitterroot River.

BITTERROOT RIVER BASIN Streamflow Forecasts - February 1, 1997

		*********		restairy 1,				
		i				===== Wetter		
Forecast Point	Forecast			- Chance Of E	xceeding *		******	
	Period	90%	70%	50% (Most		30%	10%	30-Yr Avg.
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)
***************************************		*******						
WF BITTERROOT nr Conner (2)	APR-JUL	198	223	240	158	257	282	152
	APR-SEP	216	242	260	157	278	304	166
BITTERROOT nr Darby	APR-JUL	632	702	750	153	798	868	491
	APR-SEP	704	776	825	153	874	946	540
ROCK CK nr Darby (2)	APR-JUL	96	105	110	139	116	124	79
	APR-SEP	101	109	115	139	121	129	83
SKALKAHO CK nr Hamilton	APR-JUL	55	61	65	141	69	75	46
	APR-SEP	64	70	75	142	80	86	53
BURNT FORK CK nr Stevensville (2)	APR-JUL	32	37	40	138	43	4.8	29
	APR-SEP	39	44	48	141	52	57	34
BITTERROOT at Missoula	APR-JUL	1730	1885	1990	153	2095	2250	1301
	APR-SEP	1896	2059	2170	153	2281	2444	1418

	Reservoir S	BITTERROOT E Storage (1000		of January			BITTERRO Watershed Snowpac	OT RIVER BASI		, 1997
Reservoir			Usable Capacity	*** Usabl This Year	e Storage Last Year	*** Avg	Watershed	Number of Data Sites	This Year	as % of Average
PAINTED ROCK	S LAKE		31.7	5.6	15.1	12.7	WEST FORK BITTERROOT	2	118	168
COMO			34.9	12.9	16.7	11.1	EAST SIDE BITTERROOT	3	126	176
							WEST SIDE BITTERROOT	3	157	169
							BITTERROOT BASIN	7	142	171

^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

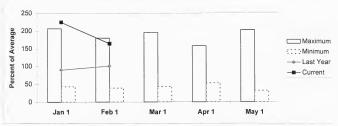
^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

Lower Clark Fork River Basin

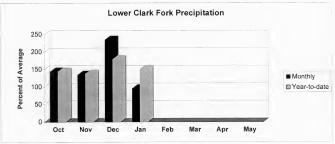
Snowpack conditions in the Lower Clark Fork River Basin were well above average. Snow water content was 64 percent above average and 63 percent above last year.





January maximum swe was established in 1985 and minimum swe was in 1977. February maximum swe was in 1972 and minimum swe was in 1973 and minimum swe was in 1973 and minimum swe was in 1973 and minimum swe was in 1981. May maximum swe was in 1972 and minimum swe was in 1981 was in 1981. May maximum swe was in 1972 and minimum swe was in 1981 was in 1973. Are maximum swe was in 1974 and minimum swe was in 1974. The swe was in 1974 and minimum swe was in 1974. The swe was in 1974 and minimum swe was in 1974. We was in 1974 and minimum swe was in 1974. We was in 1974 and minimum swe was in 1974. We was in 1974 and minimum swe was in 1974. We was in 1974 and minimum swe was in 1974. We was in 1974 and minimum swe was in 1974. We was in 1974 and minimum swe was in 1974 and minimum

Mountain precipitation during January was 4 percent below average and 26 percent below last year. Valley precipitation during January was 7 percent above average and 20 percent below last year. Water year precipitation for the basin, beginning October 1, 1996, was 50 percent above average and 1 percent below last year.



Noxon Rapids storage on the last day of January was 2 percent below average and 5 percent below last year.

Streamflows, for the period April through July, are forecast to be 50 percent above average and 28 percent above last years forecasts.

Surface Water Supply Indexes (SWSI's) were +3.5 in the Clark Fork River below Bitterroot River and +3.4 in the Clark Fork River below Flathead River.

LOWER CLARK FORK RIVER BASIN Streamflow Forecasts - February 1, 1997

		Dereumeror	. 101000000	TCDEGGEY 2,				
		<<=====	Drier ====	== Future Co	nditions =	Wette		
Forecast Point	Forecast			- Chance Of E	xceeding *			
	Period	90%	70%	50% (Most		30%	10%	30-Yr Avg.
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)
CLARK FORK ab Missoula	APR-JUL	1977	2205	2360	159	2515	2743	1487
	APR-SEP	2253	2501	2670	159	2839	3087	1681
CLARK FORK bl Missoula	APR-JUL	3761	4112	4350	156	4589	4940	2788
	APR-SEP	4204	4583	4840	156	5097	5476	3099
CLARK FORK at St. Regis (1)	APR-JUL	4145	5166	5630	153	6094	7115	3686
	APR-SEP	4601	5735	6250	153	6765	7899	4095
CLARK FORK nr Plains (1,2)	APR-JUL	11701	13763	14700	141	15637	17699	10450
	APR-SEP	12803	15070	16100	140	17130	19397	11470
THOMPSON RIVER nr Thompson Falls	APR-JUL	235	268	290	136	312	345	214
	APR-SEP	261	296	320	133	344	379	240
PROSPECT CREEK at Thompson Falls	APR-JUL	163	179	190	155	201	217	123
	APR-SEP	172	189	200	152	211	228	132
CLARK FK at Whitehorse Rpds (1,2)	APR-JUL	12662	15026	16100	137	17174	19538	11730
	APR-SEP	13917	16519	17700	137	18881	21483	12910
	APR-SEP	13917	16519	17700	137	18881	21483	1291

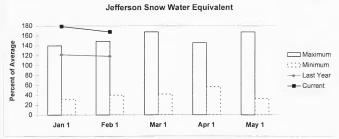
	R CLARK FORK RIVER BA rage (1000 AF) - End		ary		LOWER CLARK Watershed Snowpac	FORK RIVER I k Analysis -		1, 1997
Reservoir	Usable Capacity	*** Us This Year	able Stora Last Year	ge *** Avg	Watershed	Number of Data Sites		r as % of Average
NOXON RAPIDS	335.0	307.9	324.4	314.2	LOWER CLARK FORK	8	163	164
					CLARK FORK BASIN	35	147	161
					abv PEND ORIELLE LKE	64	144	163
					COLUMBIA in MONTANA	70	146	162
					COLUMBIA RIVER BASIN	87	136	156

^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table. The average is computed for the 1961-1990 base period.

The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 The value is natural flow - actual flow may be affected by upstream water management.

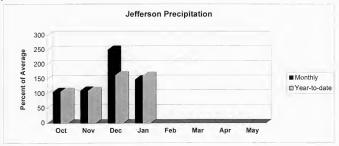
Jefferson River Basin

Snowpack conditions in the Jefferson River Basin were well above average. Snow water content was 68 percent above average and 42 percent above last year. This has set a new record that was previously set in 1969 and was 49 percent above average.



January maximum swe was established in 1976 and minimum swe was in 1977; February maximum swe was in 1969 and minimum was in 1977; March maximum swe was in 1972 and minimum was in 1977; April maximum swe was in 1973 and minimum was in 1977; May maximum swe was in 1973 and minimum swe was in 1978 and minimum swe was in 1982 and minimum in 1987. Average is for the period 1961 through 1990.

Mountain precipitation during January was 43 percent above average and 25 percent above last year. Valley precipitation during January was 118 percent above average and 38 percent above last year. Water year precipitation for the basin, beginning October 1, 1996, was 61 percent above average and 25 percent above last year.



Reservoir storage on the last day of January was 13 percent above average and 1 percent below last year. Lima storage was 40 percent above average and 4 percent below last year; Clark Canyon storage was 8 percent above average and 1 percent above last year; and Ruby River storage was at average and 7 percent below last year.

Streamflows, for the period April through July, are forecast to be 66 percent above average and 41 percent above last years forecasts. The Jefferson River near Three Forks is forecast be set a new April-July record of 1,560,000 aere-feet. The previous record was 1,554,600 set in 1984.

Surface Water Supply Indexes (SWSI's) were +3.5 in the Beaverhead River; +3.1 in the Ruby River; +3.6 in the Big Hole River; +3.0 in the Boulder River; and +3.5 for the Jefferson River as a whole.

JEFFERSON RIVER BASIN

		DCT-60mt TO	· roreceses	- February 1,	1337			
		ĺ				===== Wetter		
Forecast Point	Forecast					***********		
	Period	90%	70%	50% (Most		30%	10%	30-Yr Avg
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF
				*********			=========	
RED ROCK RIVER near Monida (2)	APR-JUL	112	132	145	150	158	178	97
	APR-SEP	120	144	160	152	176	200	105
MEAVERHEAD RIVER near Grant (2)	APR-JUL	197	225	245	186	265	293	132
	APR-SEP	233	270	295	190	320	357	155
				İ				
BEAVERHEAD RIVER at Barretts (2)	APR-JUL	238	269	290	169	311	342	172
	APR-SEP	288	322	345	170	368	402	203
UBY RIVER near Alder	APR-JUL	95	113	125	151	137	155	83
	APR-SEP	115	136	150	152	164	185	99
IG HOLE RIVER near Melrose	APR-JUL	827	960	1050	164	1140	1273	641
TO HOLD KIVEN HOME THEREOUS	APR-SEP	895	1035	1130	162	1225	1365	697
OULDER RIVER near Boulder	APR-JUL	88	110	125	147	140	162	85
	APR-SEP	97	120	135	148	150	173	91
ULLOW CREEK near Harrison	APR-JUL	18.1	25	30	170	35	42	17.7
	APR-SEP	20	28	34	170	40	4.8	20
JEFFERSON RIVER near Three Forks (1222	1423	1560	170	1697	1898	920
	APR-SEP	1382	1598	1745	172	1892	2108	1012

Reservoir Storage (1000	AF) - End		rv		Watershed Snowpac	k Analysis -		1997
Reservoir	Usable Capacity	*** Usal This Year	ole Stora Last Year	ge *** Avg	Watershed	Number of Data Sites	This Year	
LIMA	84.0	46.9	48.9	33.4	BEAVERHEAD	8	147	176
CLARK CANYON	255.6	156.8	156.0	144.7	RUBY	4	133	153
RUBY RIVER	38.8	23.8	25.6	23.8	BIGHOLE	9	127	167
					BOULDER	7	164	158
					JEFFERSON RIVER BASIN	23	142	168

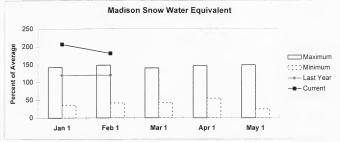
^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

Madison River Basin

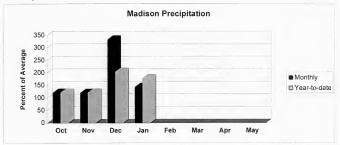
Snowpack conditions in the Madison River Basin were well above average. Snow water content was 81 percent above average and 50 percent above last year. This has set a new record that was previously set in 1969 and was 48 percent above average.



January maximum swe was established in 1971 and minimum swe was in 1977, February maximum swe was in 1969 and minimum was in 1977, Horn maximum swe was in 1969 and minimum was in 1977, Horn Imaximum swe was in 1974 and minimum was in 1977, Horn Imaximum swe was in 1974 and minimum swe under 1972, and June maximum swe was in 1993 and minimum in 1987. Average is for the period 1961 through 1990.

Mountain and valley precipitation during January was 41 percent above average and 19 percent above last year.

We see that year precipitation for the basin, beginning October 1, 1996, was 78 percent above average and 44 percent above last year.



Reservoir storage on the last day of January was 3 percent above average and 2 percent above last year. Ennis Lake storage was 15 percent below average and 5 percent below last year and Hebgen Lake storage was 5 percent above average and 3 percent above last year. Reservoirs will be drawn down earlier this year in anticipation of record snowpack this year.

Streamflows, for the period April through July, are forecast to be 44 percent above average and 28 percent ABOVE last years forecasts. The Madison River near McAllister is forecast to set a new April-July record of 965,000 acre-feet. The previous record was 963,000 acre-feet. The previous record was 963,000 acre st in 1913.

Surface Water Supply Index (SWSI) was +4.0 for the Madison River.

MADISON RIVER BASIN oflow Forecasts - Februa

				PERSONAL T	, 1,,,,			
		<<	Drier	Future C	onditions =	Wetter	*****>>	
Forecast Point	Forecast			- Chance Of	Exceeding *			
	Period	90%	70%		Probable)	30%	10%	30-Yr Avg.
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)

MADISON RIVER near Grayling (2)	APR-JUL	475	514	540	142	566	605	380
	APR-SEP	596	643	675	139	707	754	486
				1				
MADISON RIVER near McAllister (2)	APR-JUL	848	918	965	146	1012	1082	662
	APR-SEP	1076	1153	1205	145	1257	1334	831

MADISON R Reservoir Storage (1000		of Januar	у		MADISON : Watershed Snowpack .	RIVER BASIN Analysis -		, 1997
Reservoir	Usable Capacity	*** Usab This Year	le Storaç Last Year	ge *** Avg	Watershed D	Number of ata Sites	This Year	
ENNIS LAKE	41.0	28.9	30.3	34.0	MADISON abv HEBGEN LAKE	6	155	184
HEBGEN LAKE	377.5	259.1	252.0	246.8	MADISON blw HEBGEN LAKE	7	143	174
					MADISON RIVER BASIN	13	149	179

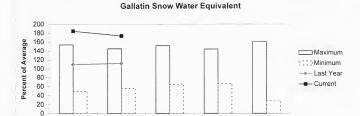
^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

Gallatin River Basin

Snowpack conditions in the Gallatin River Basin were well above average. Snow water content was 74 percent above average and 53 percent above last year. This has set a new record previously set in 1965 and was 45 percent above average.



January maximum swe was established in 1968 and minimum swe was in 1966; February maximum swe was in 1965 and minimum was in 1981; Marimum swin 1987 and minimum was in 1974 and minimum was in 1974 and minimum was in 1974 and minimum swin 1987; May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1975 and minimum swin 1987. Average is for the period 1964 through 1990.

Apr 1

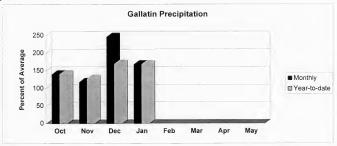
May 1

Mar 1

Feb 1

Jan 1

Mountain precipitation during January was 64 percent above average and 41 percent above last year. Valley precipitation during January was 68 percent above average and 42 percent above last year. Water year precipitation for the basin, beginning October 1, 1996, was 68 percent above average and 32 percent above last year.



Middle Creek storage on the last day of January was 92 percent above average. Reservoir storage will be drawn down earlier than normal this year in anticipation of high spring inflow from the large snowpack.

Streamflows, for the period April through July, are forecast to be 50 percent above average and 39 percent above last years forecasts. The Gallatin River near Gateway is forecast to set a new April-July record of 630,000 acrefeet. The previous record was 623,200 acre-feet in 1971. The Gallatin River at Logan is forecast to set a new April-July record of 785,000 acre-feet. The previous record was 768,300 acre-feet in 1975.

Surface Water Supply Index (SWSI) was +3.7 for the Gallatin River.

GALLATIN RIVER BASIN

		SCIEdillion	, LOIGCOOLD	- rebluary 1	1991			
Forecast Point	Forecast Period	İ	70% (1000AF)	50% (Most	Exceeding * Probable) (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
GALLATIN RIVER near Gateway	APR-JUL APR-SEP	549 647	597 699	630 735	143 142	663	711 823	441 518
E & W FK HYALITE CREEK near Bozeman	APR-JUL APR-SEP	26 30	29 34	31 36	135 139	33	37 42	23 26
HYALITE CREEK near Bozeman (2)	APR-JUL APR-SEP	39 46	44 52	48	133 133	52 60	57 66	36 42
GALLATIN RIVER at Logan (2)	APR-JUL APR-SEP	643 753	728 840	785 900	158 155	842 960	927 1047	498 581

		APR-SSP	753	840	i	700 155		960 ;	.047	, 281
Rese	GALLATIN R rvoir Storage (1000		of January			GA Watershed Sn		RIVER BASI Analysis		1, 1997
Reservoir		Usable Capacity	*** Usable This Year	Last	*** Avg	. Watershed	1	Number of Data Sites		r as % of Average
MIDDLE CREEK		10.2	6.9		3.6	UPPER GALLATIN		4	148	188
						HYALITE		3	157	154
						BRIDGER		3	158	171
						GALLATIN RIVER BA	SIN	10	153	174
						MISSOURI HEADWATE	RS	4.0	150	173

^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

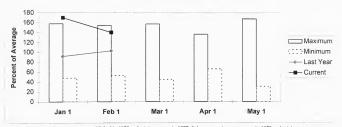
The average is computed for the 1961-1990 base period.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

Missouri Mainstem River Basin

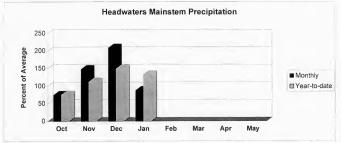
Snowpack conditions for the Missouri Mainstem River Basin were well above average. Snow water content was 43 percent above average and 46 percent above last year. Snow water content in the Headwaters Mainstem was 40 percent above average and 34 percent above last year, the Sun-Teton-Marias was 55 percent above average and 46 percent above last year; and the Smith-Judith-Musselshell was 40 percent above average and 43 percent above average and 45 percent above average.

Headwaters Mainstem Snow Water Equivalent



January maximum swe was established in 1978 and minimum swe in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe in 1972 and minimum swe was in 1977, March maximum swe was in 1978 and minimum swe was in 1961, Maximum swe was in 1964 and minimum swe was in 1964 maximum swe was in 1968 and minimum swe was in 1978 and minimum swe was in 1982. Average is for the period 1961 through 1990.

Mountain precipitation during January was 10 percent below average and 28 percent below last year. Valley precipitation during January was 20 percent below average and 30 percent below last year. Water year precipitation for the basin, beginning October 1, 1996, was 32 percent above average and 17 percent above last year.



Reservoir storage on the last day of January was 3 percent below average and 6 percent below last year. Canyon Ferry Lake storage was 4 percent below average and 7 percent above last year, Helena Valley storage was 34 percent above average and 29 percent above last year, Lake Helena storage was 8 percent above average and 2 percent above last year, Hauser & Helena storage was 5 percent above average and the same as last year, Holter Lake storage was 11 percent above average and the same as last year, and Fort Peck Lake storage was 3 percent above average and 2 percent below last year. Reservoirs will be drawn down earlier than normal this year in anticipation of the large inflow expected this spring from record snowpack.

Streamflows, for the period April through July, are forecast to be 71 percent above average 46 percent above last years forecasts. The Missouri River at Toston is forecast to set a new April-July record of 3,300,000 acre-feet. The previous record was 3,189,000 acre-feet in 1075

Surface Water Supply Indexes (SWSI's) were +3.7 in the Missouri River above Canyon Ferry; +3.7 in the Missouri River below Canyon Ferry; +3.4 in the Missouri River above Fort Peck; and +3.4 in the Missouri River below Fort Peck.

MISSOURI MAINSTEM RIVER BASIN Streamflow Forecasts - February 1, 1997

		<<======	Drier ====	== Future Co	nditions ==	Wetter	====>>	
Forecast Point	Forecast			- Chance Of E	xceeding * :			
	Period	90%	70%	50% (Most	Probable)	30%	10%	30-Yr Avg.
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)
ISSOURI RIVER at Toston (2)	APR-JUL	2520	2985	3300	159	3615	4080	2075
ISSOURI RIVER AL IOSCON (2)	APR-SEP	3189	3526	3300	160	4194	4518	2075 2416
	III N OOL	3403	3320	1 3000	100	4174	4510	2410
RICKLY PEAR CREEK near Clancy	APR-JUL	11.2	21	28	120	34	44	23
	APR-SEP	13.6	25	32	119	39	50	27
IN RIVER at Gibson Dam (2)	APR-JUL	536	616	670	140	724	804	478
	APR-SEP	589	673	730	139	787	871	526
(SSOURI RIVER at Fort Benton (2)	APR-JUL	3905	4676	5200	168	5724	6495	3087
	APR-SEP	5002	5669	6220	169	6771	7430	3678
RIAS RIVER near Shelby (2)	APR-JUL	516	623	695	156	767	874	447
	APR-SEP	567	676	750	154	824	933	487
SSOURI RIVER at Virgelle (2)	APR-JUL	4950	5635	6100	170	6565	7250	3595
_	APR-SEP	5735	6746	7200	171	7654	8940	4217
SSOURI RIVER near Landusky (2)	APR-JUL	5822	6404	6800	175	7196	7778	3897
	APR-SEP	6412	7700	8070	176	8440	10030	4580
SSOURI RIVER below Fort Peck (2)	APR-JUL	5941	6631	7100	177	7569	8259	4015
	APR-SEP	6388	7691	8140	177	8589	10203	4596
KE SAKAKAWEA Inflow (2)	APR-JUL	13391	15242	16500	167	17758	19609	9897
	APR-SEP	15431	17572	19100	168	20628	22919	11346

MISSOURI MAINSTEM RIVER BASIN Reservoir Storage (1000 AF) - End of January					MISSOURI MAINSTEM RIVER BASIN Watershed Snowpack Analysis - February 1, 1997			
Reservoir	Usable Capacity	*** Usa This Year	ble Store Last Year	age *** Avg	Watershed	Number of Data Sites	This Yea: Last Yr	r as % of Average
CANYON FERRY LAKE	2043.0	1528.0	1637.0	1596.0	MISSOURI MAINSTEM	9	134	140
HELENA VALLEY	9.2	6.3	4.9	4.7	SMITH-JUDITH-MUSSELSHEL	ь 9	143	140
LAKE HELENA	10.4	11.1	10.9	10.3	SUN-TETON-MARIAS	7	146	155
HAUSER & HELENA	61.9	63.2	63.1	61.3	MISSOURI abv FT PECK	24	142	145
HOLTER LAKE	81.9	81.2	81.2	72.9	MILK RIVER BASIN	6	243	119
FORT PECK LAKE (MAF)	18.9	15.3	15.6	14.9	MISSOURI MAINSTEM BASIN	29	146	141

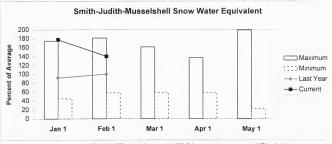
^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

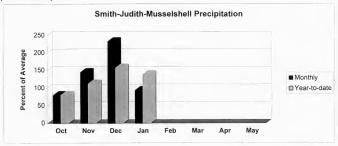
Smith-Judith-Musselshell River Basins

Snowpack conditions in the Smith-Judith-Musselshell River Basins were well above average. Snow water content in the Smith River Basin was 50 percent above average and 32 percent above last year; in the Judith River Basin was 28 percent above average and 37 percent above last year; and in the Musselshell River Basin was 32 percent above average and 51 percent above last year.



January maximum swe was established in 1978 and minimum swe in 1988, February maximum swe was in 1978 and minimum swe was in 1987, March maximum swe was in 1978 and minimum swe was in 1987, April maximum swe was in 1970 and minimum swe was in 1992, and minimum swe was in 1992, and minimum swe was in 1982, and minimum swe was in 1982, are successed in 1982, and minimum swe was in 1982. Average is for the period 1961 through 1990.

Mountain and valley precipitation in the Smith River Basin during January was 1 percent below average and 25 percent below last year; in the Judith River Basin during January was 7 percent below average and 16 percent below last year, and in the Musselshell River Basin during January was 3 percent below average and 53 percent below last year. Water year precipitation, beginning October 1, 1996, in the Smith-Judith-Musselshell River Basins was 38 percent above average and 21 percent above last year.



Reservoir storage on the last day of January was 4 percent above average and 27 percent below last year. Smith River storage was 8 percent below average and 35 percent below last year, Newlan Creek storage [NO REPORT]; Bair storage was 34 percent below average and 52 percent below last year, Martinsdale storage was 8 percent above average and 27 percent below last year, and Deadman's Basin was 8 percent above average and 24 percent below last year.

Streamflows, for the period April through July, are forecast to be 10 percent above average and 7 percent above last years forecasts.

Surface Water Supply Index (SWSI) was +3.4 in the Smith River and +2.4 in the Musselshell River.

SMITH-JUDITH-MUSSELSHELL RIVER BASINS Streamflow Forecasts - February 1, 1997

		<<=======	Drier ===*	= Future C	onditions =	Wetter	>	
Forecast Point	Forecast							
	Period	90% (1000AF)	70% (1000AF)	50% (Most (1000AF)	Probable) (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Av
HEEP CREEK nr White Sulphur Spring	gs APR-JUL	20	23	25	138	27	30	18
	APR-SEP	24	27	29	138	31	34	
TH RIVER blw Eagle Creek	APR-JUL	93	121	140	136	159	187	1
	APR-SEP	116	148	170	137	192	224	1
MUSSELSHELL near Delpine	APR-JUL	5.16	6.55	7.50	156	8.45	9.84	4.
	APR-SEP	6.12	7.68	8.75	156	9.82	11.38	5.
MUSSELSHELL abv Martinsdale	APR-JUL	44	64	78	150	92	112	
	APR-SEP	49	70	84	150	98	119	

				1				
SMITH-JUDITH-MUS Reservoir Storage (10			у		SMITH-JUDITH-MUS. Watershed Snowpack			1, 1997
Reservoir	Usable Capacity	*** Usab This Year	le Storag Last Year	e *** Avg	Watershed	Number of Data Sites	This Yea: Last Yr	
SMITH RIVER	10.6	5.8	8.9	6.3	SMITH	4	132	150
NEWLAN CREEK		NO REPOR	т		JUDITH	5	137	128
BAIR	7.0	2.5	5.2	3.8	MUSSELSHELL	4	151	132
MARTINSDALE	23.1	9.9	13.6	9.2	SMITH-JUDITH-MUSSELSHEL	L 9	143	140
DEADMAN'S BASIN	72.2	46.3	60.7	43.0				

^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

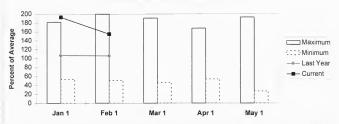
The average is computed for the 1961-1990 base period.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

Sun-Teton-Marias River Basins

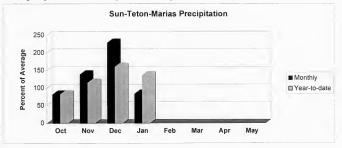
Snowpack conditions in the Sun-Teton-Marias River Basin were well above average. Snow water content in the Sun River Basin was 49 percent above average and 36 percent above last year; and the Marias River Basin was 43 percent above average and 34 percent above last year; and the Marias River Basin was 56 percent above average and 47 percent above last year.





January maximum swe was established in 1991 and minimum swe was in 1988. February maximum swe was in 1972 and minimum swe was in 1974 method minimum, swe was in 1974 method minimum, swe was in 1974 method minimum, swe was in 1984. April maximum swe was in 1984 and minimum swe was in 1984. May maximum swe was in 1972 and minimum swe was in 1982 method minimum, swe was in 1982 method minimum, swe was in 1982. Average is for the period 1961 through 1990.

Mountain and valley precipitation during January in the Sun River Basin was 11 percent below average and 18 percent below last year, in the Teton River Basin was 23 percent below average and 23 percent below last year, and in the Marias River Basin was 14 percent below average and 17 percent below last year. Water year precipitation for the Sun-Teton-Marias river basins, beginning October 1, 1996, was 36 percent above average and the same as last year.



Reservoir storage on the last day of January was 19 percent above average and 15 percent below last year. Gibson storage was 19 percent below average and 31 percent below last year; Pishkun storage was 102 percent above average and 74 percent above last year; Willow Creek storage is low until repairs are completed; Lower Two Medicine Lake storage was 40 percent below average and 62 percent below last year; Four Horns Lake storage was 1 percent below average and 68 percent above last year; Swift storage was 10 percent below average and 45 percent below last year; Lake Frances storage was 2 percent above average and 25 percent below last year; and Lake Elwell (Tiber) storage was 27 percent above average and 12 percent below last year.

Streamflows, for the period April through July, are forecast to be 47 percent above average and 32 percent above last years forecasts.

Surface Water Supply Indexes (SWSI's) were +3.2 in the Sun River; +3.0 in the Teton River; +3.3 in the Birch/Dupuyer Creeks; and +3.4 in the Marias River.

SUN-TETON-MARIAS RIVER BASINS Streamflow Forecasts - February 1, 1997

	<<=======	Drier	== Future Co	nditions =	Wetter	====>>	
Forecast							
Period	(1000AF)	(1000AF)			(1000AF)	(1000AF)	30-Yr Avg (1000AF
APR-JUL	536	616	670	140	724	804	478
APR-SEP	589	673	730	139	787	871	526
APR-JUL	233	282	315	147	348	397	215
APR-SEP	248	297	330	145	363	412	228
APR-JUL	104	126	140	135	154	176	104
APR-SEP	122	144	160	133	176	198	120
APR-JUL	66	82	92	135	103	118	6.8
APR-SEP	79	96	107	134	118	135	80
APR-JUL	10.7	19.8	26	168	32	41	15.5
APR-SEP	12.9	23	29	167	36	4.5	17.4
APR-JUL	115	130	140	161	150	166	87
APR-SEP	131	145	155	162	165	180	96
APR-JUL	516	623	695	156	767	874	447
APR-SEP	567	676	750	154	824	933	487
	Period APR-JUL APR-SEP APR-JUL APR-SEP APR-JUL APR-SEP APR-JUL APR-SEP APR-JUL APR-SEP APR-JUL APR-SEP APR-JUL APR-SEP APR-JUL APR-SEP APR-JUL APR-SEP	FORECAST 904 9	Period 90% 7	Period	Period 90	Period	Period 904 704 705 505 (Most Probable) 304 104 APR-TILL 1000AP1 (1000AP1) (1000AP1)

SUN-TETON-MAR Reservoir Storage (100				SUN-TETION-MARIAS RIVER BASINS						
Reservoir	Usable Capacity	*** Usal This Year	ble Stora Last Year	ge ***	Watershed	of				
GIBSON	99.1	35.9	52.1	44.2	SUN	2	136	149		
PISHKUN	32.0	35.8	20.6	17.7	TETON	3	134	143		
WILLOW CREEK	32.2	5.0	26.5	21.2	MARIAS	4	147	156		
LOWER TWO MEDICINE LAKE	11.9	4.0	10.5	6.7	SUN-TETON-MARIAS	7	146	155		
FOUR HORNS LAKE	19.2	12.3	7.3	12.4						
SWIFT	30.0	13.8	25.2	15.3						
LAKE FRANCES	112.0	71.3	95.4	69.6						
LAKE ELWELL (TIBER)	1347.0	737.7	836.6	583.0						

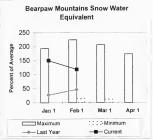
^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

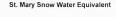
The average is computed for the 1961-1990 base period.

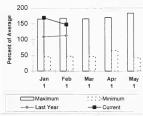
^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

St. Mary and Milk River Basins

Snowpack conditions in the St. Mary and Milk River Basins were well above average. Snow water content in the St. Mary River Basin was 48 percent above average and 31 percent above last year and in the Milk River Basin. (Cypress Hills in Canada and Bearpaw Mountains in Montana) was 25 percent above average and 109 percent above last year.







Beappay - January maximum swe was established in 1978 and minimum swe was in 1981; February maximum swe was 1978 and minimum swe in 1975. March maximum swe was 1981; April maximum swe was 1984; Tayli maximum swe was 1984; April maximum swe was 1984; April maximum swe was in 1975 and minimum swe was in 1983; May maximum swe was 1975 and the minimum has ocurred in several years. Average is for the period 1961 through 1990.

St. May. January maximum swe was citabilished in 1991 and minimum swe was in 1988; February maximum swe was in 1978.

In minimum swe was in 1974. March minimum swe was in 1972 and minimum swe was in 1974. April maximum swe was in 1972 and minimum swe was in 1974.

April maximum 1974.

May maximum swe was in 1992. May maximum swe was in 19972 and minimum swe was in 1977, and June maximum swe was in 1997.

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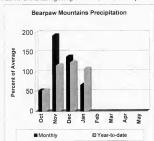
May maximum swe was 1912.

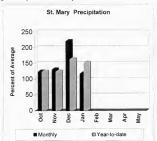
May maximum swe was 1912.

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Mountain and valley precipitation in the St. Mary River Basin during January was 18 percent above average and 4 percent above last year and in the Milk River Basin was 33 percent below average and 40 percent below last year. Water year precipitation for the St. Mary and Milk River Basin, beginning October 1, 1996, was 36 percent above average and 11 percent below last year.





Reservoir storage on the last day of January was 12 percent above average and 5 percent below last year. Lake Sherburne storage was 22 percent above average and 4 percent below last year; Fresno storage was 24 percent above average and 14 percent below last year; Beaver Creek storage was 61 percent above average and 4 percent above last year, and Nelson storage was 12 percent below average and 17 percent above last year.

Streamflows, for the period April through July, in the St. Mary are forecast to be 21 percent above average and 13 percent above last years forecasts and for the period March through July in the Milk are forecast to be 26 percent above average and 25 percent above last years forecasts

Surface Water Supply Index (SWSI) was +3.0 in the Milk River.

ST. MARY and MILK RIVER BASINS Streamflow Forecasts - February 1, 1997

		<<======	Drier	= Future Co	nditions =	Wetter	====>>	
Forecast Point	Forecast			Chance Of E	xceeding * -			
	Period	90%	70%	50% (Most	Probable)	30%	10%	30-Yr A
		(1000AF)	(1000AF)	(1000AF)		(1000AF)	(1000AF)	(1000
WIFTCURRENT CREEK at Sherburne (2)	APR-JUL	104	114	120	112	126	136	
arrenami cabba de bacabane (2)	APR-SEP	125	134	140	112	146	155	1
	ALIC DEL	14.5	234	140	112	140	155	1
r. MARY RIVER near Babb	APR-JUL	439	472	495	125	518	551	3
	APR-SEP	530	566	590	127	614	650	4
. MARY RIVER at US/CAN Border (2)	APR-JUL	470	518	550	119	582	630	4
	APR-SEP	569	617	650	121	683	14 650 82 630 83 731	5
LK RIVER at Western Crossing	MAR-JUL	34	45	52	118	5.9	70	
	MAR-SEP	39	4.9	56	122	63	74	
LK RIVER at Eastern Crossing (2)	MAR-JUL	61	87	105	131	123	149	
	MAR-SEP	71	97	115	131	133	159	
AVER CREEK near Havre	MAR-JUL	3.4	8.8	12.5	121	16.2	22	10

	ST. MARY and MILK RIVER BASINS Reservoir Storage (1000 AF) - End of January						ST. MARY and MILK RIVER BASINS Watershed Snowpack Analysis - February 1, 1997						
Reservoir	Usable Capacity	*** Usab This Year	le Storag Last Year	e *** Avg	Watershed	Number of Data Sites		ar as % of Average					
LAKE SHERBURNE	64.3	29.2	30.4	24.0	ST. MARY	2	131	148					
FRESNO	127.0	63.3	73.7	51.2	BEARPAW MOUNTAINS	6	243	119					
BEAVER CREEK	3.5	2.9	2.8	1.8	CYPRESS HILLS, CANADA	0	0	0					
NELSON	66.8	32.1	27.5	36.4	MILK RIVER BASIN	6	243	119					
					ST. MARY & MILK BASINS	8	147	139					
***********************					*******************								

^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

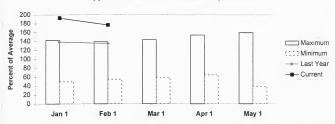
The average is computed for the 1961-1990 base period.

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Upper Yellowstone River Basin

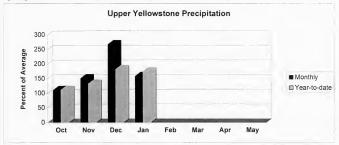
Snowpack conditions in the Upper Yellowstone River Basin were well above average. Snow water content was 77 percent above average and 29 percent above last year. This has set a new record that was previously set in 1972 and was 39 percent above average.





January maximum swe was established in 1976 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 1973, maximum swe was in 1974 and minimum swe was in 1974 and minimum swe was in 1981 and minimum swe was in 1981; May maximum swe was in 1971 and minimum swe was in 1981; May maximum swe was in 1971 and minimum swe was in 1981 and 1994. Average is for the period 1961 through 1990.

Mountain precipitation during January was 59 percent above average and 20 percent above last year. Valley precipitation during January was 37 percent above average and 20 percent above last year. Water year precipitation for the basin, beginning October 1, 1996, was 74 percent above average and 24 percent above last year.



Reservoir storage on the last day of January was 4 percent above average and 10 percent above last year. Mystic Lake storage was 34 percent below average and 10 percent above last year and Cooney storage was 27 percent above average and 9 percent above last year.

Streamflows, for the period April through July, are forecast to be 49 percent above average and 23 percent above last years forecasts. The Yellowstone River at Corwin Springs is forecast to set a new April-July record of 2,400,000 acre-feet, previously set at 2,299,000 acre-feet in 1974; the Yellowstone River near Livingston is forecast to set a new April-July record of 2,900,000 acre-feet, previously set at 2,629,000 acre-feet in 1971; the Yellowstone River at Billings is forecast to set a new April-July record of 2,465,000 acre-feet, previously set at 3,640,000 in 1975.

Surface Water Supply Indexes (SWSIS) were +4.0 in the Yellowstone River above Livingston; +3.7 in the Shields River; +4.0 in the Boulder River; +3.8 in the Stillwater River; +3.8 in the Rock/Red Lodge Creeks; +4.0 in the Clarks Fork River; and +4.0 in the Yellowstone River above Bighorn River.

UPPER YELLOWSTONE RIVER BASIN

		<<======	Drier	Future Co	onditions =	Wetter	*****>>	
Forecast Point	Forecast			- Chance Of E	Exceeding *			
	Period	90% (1000AF)	70% (1000AF)	50% (Most (1000AF)	Probable) (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg (1000AF)

ELLOWSTONE RIVER at Corwin Springs	APR-JUL APR-SEP	2185 2623	2313 2788	2400 2900	149 150	2487 3012	2615 3177	1609 1937
ELLOWSTONE RIVER near Livingston	APR-JUL	2545	2697	2800	151	2903	3055	1855
	APR-SEP	3087	3268	3390	151	3512	3693	2241
HIELDS RIVER near Livingston	APR-JUL	193	227	250	154	273	307	162
	APR-SEP	216	251	275	154	299	334	179
DULDER RIVER at Big Timber	APR-JUL	383	423	450	134	477	517	335
	APR-SEP	432	473	500	137	527	568	364
EST ROSEBUD CREEK near Roscoe (2)	APR-JUL	68	75	80	131	85	92	61
	APR-SEP	92	100	105	133	110	118	79
FILLWATER RIVER nr Absarokee (2)	APR-JUL	539	620	675	136	730	811	498
	APR-SEP	664	745	800	135	855	936	593
LARKS FORK RIVER near Belfry	APR-JUL	612	679	725	136	771	838	532
	APR-SEP	675	755	810	137	865	945	590
ED LODGE CREEK blw Cooney Res (2)	APR-JUL	35	53	65	138	77	95	47
	APR-SEP	45	63	75	132	87	105	57
ELLOWSTONE RIVER at Billings (2)	APR-JUL	4648	5134	5465	153	5796	6282	3577
	APR-SEP	5521	6044	6400	152	6756	7279	4211

UPPER YELLOWST Reservoir Storage (1000					UPPER YELLOW Watershed Snowpack	STONE RIVER Analysis -		, 1997
Reservoir	Usable Capacity	*** Usable This Year	e Storage Last Year	*** Avg	Watershed	Number of Data Sites	This Year	
MYSTIC LAKE	21.0	5.6	5.1	8.5	abv LIVINGSTON	13	128	181
COONEY	27.4	18.5	16.9	14.6	SHIELDS	5	163	180
					BOULDER-STILLWATER	3	136	174
					CLARK'S FORK-ROCK CREEK	9	116	167
					UPPER YELLOWSTONE RIVER	26	129	176

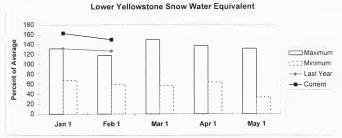
^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
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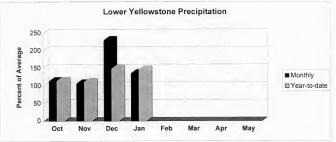
Lower Yellowstone River Basin

Wyoming snowpack conditions for the Lower Yellowstone River Basin were well above average. Snow water content was 50 percent above average and 18 percent above last year. This has set a new record that was previously set in 1996 and was 27 percent above average.



January maximum swe was established in 1996 and minimum swe was in 1981; February maximum swe was in 19178 and minimum swe was in 1984, March maximum swe was in 1986 and minimum swe was in 1974; April maximum swe was in 1986 and minimum swe was in 1981; and June maximum swe was in 1986 and minimum swe was in 1981; and June maximum swe was in 1986 and minimum swe was in 1984. The state of the

Mountain and valley precipitation during January was 36 percent above average and 1 percent above last year. Water year precipitation for the basin, beginning October 1, 1996, was 46 percent above average and 13 percent above last year.



Reservoir storage on the last day of January was 2 percent below average and 3 percent below last year. Bighorn Lake storage was 2 percent below average and 3 percent below last year and Tongue River storage was 32 percent below average and 18 percent below last year. Bighorn Lake will be drawn down earlier than normal to make room for the anticipated large inflow this spring.

Streamflows, for the period April through July, are forecast to be 56 percent above average and 24 percent above last years forecasts. The Yellowstone River at Stinney is forecast to set a new April-July record of 9,800,000 acre-feet, previously set at 8,978,000 acre-feet in 1965.

Surface Water Supply Indexes (SWSI's) were +3.6 in the Bighorn River below Bighorn Lake; +1.9 in the Little Bighorn River; +3.6 in the Yellowstone River below Bighorn River; +1.6 in the Tongue River; and +1.9 in the Powder River.

LOWER YELLOWSTONE RIVER BASIN Streamflow Forecasts - February 1, 1997

		<<=====	= Drier ==		Future C	onditions	******	Wetter	*****>>		
Forecast Point	Porecast Period	90% (1000AF)	70% (1000AF)	- 1	0% (Most (1000AF)	Exceeding * Probable) (% AVG.)	(1	30% 000AF)	10% (1000AF)		-Yr Avg. (1000AF)
YELLOWSTONE RIVER at Billings (2)	APR-JUL APR-SEP	4648 5521	5134 6044		5465 6400	153 152		5796 6756	6282 7279		3577 4211
BIGHORN RIVER nr St. Xavier (2)	APR-JUL APR-SEP	1946 2170	2318 2561	i	2570 2827	156 156		2822 3093	3194 3484		1645 1810
LÍTTLE BIGHORN RIVER nr Hardin	APR-JUL APR-SEP	104 116	146 163		175 195	125 125		204 227	246 274		140 156
TONGUE RIVER stateline nr Decker (2)	APR-JUL APR-SEP	171 143	224 243	i	260 280	113 112		296 317	349 375		230 250
YELLOWSTONE RIVER at Miles City (2)	APR-JUL APR-SEP	6696 7810	7684 8935		8355 9700	154 154		9026 0465	10014 11590		5431 6281
POWDER RIVER at Moorhead	APR-JUL APR-SEP	134 160	179 203		210 232	100 100		241 261	286 304		211 232
POWDER RIVER near Locate	APR-JUL APR-SEP	158 80	207 218		240 260	95 95		273 302	322 399		252 275
YELLOWSTONE RIVER nr Sidney (2)	APR-JUL APR-SEP	7995 8762	9070 9752		9800 10600	165 162		0530 1448	11605 12359		5925 6539
LOWER YELLOWST Reservoir Storage (1000	ONE RIVER	BASIN of Januar	у		1	LOWE Watershed	R YELLOW! Snowpack	STONE R	IVER BASIN is - Febru	ary 1	, 1997
Reservoir	Usable Capacity	This Year	le Storage Last Year	Avg		rshed		Numbe of Data Si	tes Last	Yr	as % of Average
BIGHORN LAKE	1356.0	826.4		839.2		RIVER (Wyo		20	124		168
TONGUE RIVER	68.0	18.4	22.4	27.1	SHOS	HONE RIVER	(Wyoming	7	113		177
					BIGH	ORN RIVER (Wyoming)	21	114		148
					i	LE BIGHORN			115		118
					i	UE RIVER (W		9	109		123
					İ	ER RIVER (W		8	124		129
					L TOMR	R YELLOWSTO	NE KIVER	48	119		150

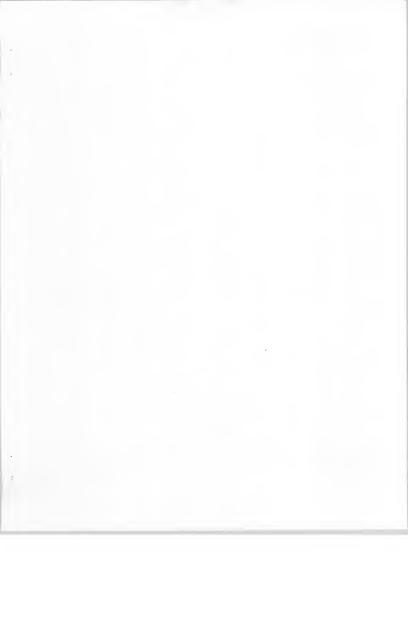
^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table. The average is computed for the 1961-1990 base period.

YELLOWSTONE BASIN

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1,24

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.





Federal Building, Room 443 10 E. Babcock Bozeman, MT 59715



Montana Basin Outlook Report

Natural Resources Conservation Service Bozeman, MT

